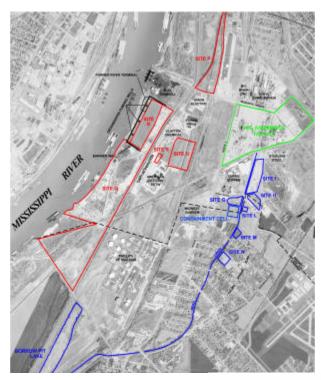
RCRA CORRECTIVE MEASURES STUDY(CMS)

SOLUTIA INC. W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS

VOLUME I – CMS REPORT ADDENDUM



Prepared by: Solutia Inc. 575 Maryville Centre Drive St. Louis, Missouri 63141









August 27, 2004

Boring Logs

Phase I

4									LOG OF BO	
Denth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/11/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTIO	DN.	NOTES
				0.0	V		ML	Dark brown clayey sandy SILT	71V	1148 Sample S0101(0-2) for VOCs, SVOCs, metals, and PCB field test
		48	36	0.0			CL	Dry, brown sandy CLAY Moist, tan SAND		
į	5—	48	42	0.0						Wateria
				0.0						Wet at interface of sands
10	- - -	48	45	0.0			SP	Becomes tan / brown		
		. <u>.</u>		0.0				Becomes fine grained		
		48	48	0.0	V					1205 Sample S0101(13-15) for VOCs,
15	5			0.0				Becomes coarse grained		SVOCs, metals, and PCB field test End of Boring
										Like of Boring
20	,									
3/25/04										
URS (ENVIRON) LOG 2166/197.GPJ URSSTLEV.GDT 8/25/04 The contraction of the contraction o										
Z.GPJ UI	Ц				(00.73)					
Proj	ect	No.:		21561388				_	Water Depth:	N/A ft., After <u>ATD</u> hrs. ft., After hrs.
Proj Dril	ect ling	Name: Contr	actor:	R	oberts I	<u>Enviror</u>	rich Phase I mental Dr	l illing Inc	✓ Water level at ✓ Water level af	ter drilling
Öril Log	ling	g method l by:	od:	ge Jones		Geo	probe		3" Clear Acetai Hollow Stem A NX Wireline C	auger based on field visual
URS (<u>URS</u>	ATD - At time of	

								LOG OF BORING S0102				
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	Completion Date: 3/11/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES				
T							Brown sandy clayey SILT	NOTES				
-	48	40	0.0	V		ML-CL		1250 Sample S0102(0-2) for VOCs, SVOCs, metals, and PCB field test				
_	_		0.0				Brown, fine grained silty SAND					
5	48	48	0.0			SM	Becomes slightly moist	1255 Sample S0102(4-6) for VOCs, SVOCS, metals, and PCB field test				
			0.0				Soft, wet, brown silty CLAY					
			0.0	V		CL-ML	Becomes stiff					
10	48	38	0.0	Å			Moist, brown, fine grained sandy CLAY Tan, fine grained SAND					
	48	0	0.0	V		SP		Sleeve crumpled, no real recovery				
15				A								
	_							End of Boring				
20												
Comp	oletion E	_	1 2156138	6.00 Ft. 8.00000			Water Depth: Water Depth:	N/A ft., After <u>ATD</u> hrs. ft., After hrs.				
Proje	ct Name	:		ŀ	<u> Krumm</u>	rich Phase	<u>V</u> Water level at	water Depth: ft., After hrs.				
Drilli	ng Conti ng methe ed by:	od:	rge Jone		Geo	nmental Dr probe vent	3" Clear Aceta	3" Clear Acetate Liner Hollow Stem Auger NX Wireline Core Barrel Unified Soil Classification based on field visual observations.				
8							URS NX Wireline C	f drilling				

							LOG	OF BOF S0103	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/12/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION		NOTES
						ML	Slightly moist, dark brown sandy SILT		Moisture due to rain
	48	25	0.7	X		SM	Moist, tan / brown, fine grained silty SAND)	0950 Sample S0103(0-2) for VOCs, SVOCs, metals, and PCB field test
5	48	38	0.9			ML	Moist, tan, fine grained sandy SILT		
							Tan / brown, fine grained silty SAND		
10	48	34	0.0	V					
10	46	34	1.8			SM			
	48	48	0.7	V			Slightly moist, tan, mottled, fine to medium SAND	grained	1005 Sample S0103(13-15) and
15			1.0	A		SP			S0103(13-15)D for VOCs, SVOCs, metals, and PCB field test
20 -									End of Boring
Comp	letion D	enth:	10	6.00 Ft.			Water F	enth: N	/A ft., After ATD hrs.
Project Project Drillin	et No.: et Name: ng Contr ng metho	actor:	2156138	8.00000 F Roberts	Krumm Enviro Geo		Water D V Water Wate	Depth:	me of drilling r drilling I Geoprobe Macro Sampler Liner ger Barrel Liner Unified Soil Classification based on field visual observations.

						LOG OF BOI S0104	RING	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/11/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
			0.0	V		ML	Brown sandy SILT	
	48	36		X		SM	Brown, fine grained silty SAND	1635 Sample S0104(0-2) for VOCs, SVOCs, metals, and PCB field test Becomes wet
			0.0	A		CL-ML	Soft to medium stiff, dry to moist, brown silty CLAY	
5			0.0	V		CL	Soft, moist to wet, brown silty sandy CLAY	
	48	36		X		CI 18	Stiff, dry to moist, brown / tan, mottled silty CLAY with some soft spots	
			0.0			CL-ML		
	_		0.0	V		CL	Soft, moist, brown silty sandy CLAY Becomes wet	
10	48	39	0.0	X		SM	Brown, fine grained silty SAND	
			0.0			ML-CL	Brown clayey SILT	
-			0.0	V		CL-ML	Soft, brown silty CLAY Moist, tan, coarse grained SAND	
15	48	38	0.0			SP	Becomes dry	1655 Sample S0104(13-15) for VOCs, SVOCs, metals, and PCB field test
_								End of Boring
_	-							
20								
	_							
	_					!		
	-							
Projec	letion D et No.:		21561388				Water Depth:	/A ft., AfterATD hrs. ft., Afterhrs.
Drillin	et Name: ng Contr ng metho	actor:		oberts)	Enviro _!	rich Phase] nmental Dr probe	illing Inc ▼ Water level afte 3" Clear Acetate	r drilling
Logge	-		ge Jones			_	W Hollow Stem Au NX Wireline Cor ATD - At time of Co	ger based on field visual observations.

								LOG OF BOI S0105	RING
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/11/03 Casing Elevation: N/A Ground Elevation: N/A	
ľ					W		ML-CL	DESCRIPTION Blackish clayey SILT	NOTES
	-			0.0	V		SM	Moist, black / tan, fine grained silty SAND	1525 Samples S0105(0-2),
		48	39	0.0	Å		CL-ML	Medium stiff, moist, brown silty CLAY	S0105(0-2)MS, and S0105(0-2)MSD for VOCs, SVOCs, metals, and PCB field test
:	5			0.0	V		CL	Moist, brown sandy CLAY	
		48	40	0.0			SM	Wet, brown silty SAND	
		-		0.0	T		sc	Wet, brown clayey SAND	
	10	48	34	0.0	Å	(//////	CL_	Moist, brown silty sandy CLAY Dry to moist, tan / brown, medium grained SAND	
				0.0	V		SP		
	15	48	39	0.0	Å				1520 Sample S0105(13-15) for VOCs, SVOCs, metals, and PCB field test
		-						Becomes wet	End of Boring
		-							
	20								
DT 8/25/04									
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04									
1197.GP	_	letion D	-		5.00 Ft.				/A ft., After ATD hrs.
3 21561		t No.: t Name:		21561388			rich Phase]	∑ Water level at ti	
NVIRON) LOC	Drillir	ng Contr ng metho	actor: od: —		oberts l	Environ Geo	ımental Dr probe	illing Inc ▼ Water level after 3" Clear Acetate Hollow Stem Au	r drilling Liner ger Geoprobe Macro Sampler Unified Soil Classification based on field visual
URS (EI	~ంక్రక	Uy.		<u> </u>				URS NX Wireline Cor	

								LOG OF BORING S0106				
	Depth In feet	Inhes	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/12/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES			
ľ	-				V		ML	Moist, dark brown sandy SILT	1140 Sample S0106(0-2) and S0106(0-2)EB for VOCs, SVOCs,			
٠				2.1	V			Moist, tan / brown, fine grained silty SAND	metals, and PCB field test			
		48	63	3.0	Å		· SM		PID readings in head space are slowly rising, possibly inaccurate			
	5	48	37	4.7				Becomes moist				
	-			25.0			ML	Moist, tan sandy SILT Moist, tan silty SAND				
	10	-		140.0	V		SM	Becomes brown	1150 Sample S0106(8-10) for VOCs, SVOCs, metals, and PCB field test			
	10	48	41		À		CL-ML	Becomes tan Wet, tan silty CLAY				
	ŀ			74.0			Moist, tan, silty SAND					
	-			70.0	V		ML-CL	Moist, tan, clayey SILT Becomes medium stiff and wet				
	15	48	44	10.0	10.0	À	(XXXXX)	SP	Dry to moist, brown / tan, fine to medium grained, SAND Becomes wet			
									End of Boring			
8/25/04	20											
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04	Com	pletion	Depth:		6.00 Ft.			Water Depth:	N/A ft., After ATD hrs.			
G 2156	-			2156138			rich Phase	I	at time of drilling			
ENVIRON) LO	Drilli Drilli		tractor: nod: —		oberts	Enviro Geo	nmental Dr probe	Water level 3" Clear Ace Hollow Stern	etate Liner Unified Soil Classification h Auger based on field visual			
URS (URS NX Wireline ATD - At time	e of drilling			

							LOG OF BORING S0107		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
			1.3	V		ML-CL	Moist, black sandy clayey SILT	1335 Sample S0107(0-2) for VOCs, SVOCs, metals, and PCB field test	
-	48	28		X			Soft, black silty sandy CLAY		
			1.9			CL	Medium stiff, moist, black, mottled silty CLAY	·	
5			2.4	V					
	48	41	1.2			ML-CL	Wet, gray, mottled sandy clayey SILT Medium stiff, moist, gray, mottled silty CLAY		
						CL-ML	Becomes wet and brown		
10	48	40	0.8	Y			Becomes tan and mottled		
			0.9			SM	Moist, tan / brown, fine grained silty SAND		
	<u> </u>		0.3	V			Soft, moist, brown, plastic silty CLAY	1345 Sample S0107(13-15) for VOCs, SVOCs, metals, and PCB field test	
15-	48	40	0.7			CL	Moist, tan / brown, fine grained SAND	- Street, metals, and reprint test	
			0.7			SM		End of Boring	
							•		
20									
	-								
Com	oletion D	enth	1	6.00 Ft.			Water Denth: N	WA ft., After ATD hrs.	
Proje	ct No.:		2156138	8.00000)	-	Water Depth:	ft., After hrs.	
	ct Name: ng Conti					rich Phase nmental Dr	Water level after	er drilling	
Drilli	ng metho	od:			Geo	probe	3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification	
Logge	ed by:	Geo	rge Jone	s/Jenni	fer Schv	went	URS NX Wireline Co	re Barrel observations.	
								- <u></u>	

								OF BORING S0108		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A	NOTES		
						ML-CŁ	DESCRIPTION Gray sandy clayey SILT	NOTES		
	48	24	0.0	Y			Moist, tan, fine grained silty SAND	0910 Sample S0108(0-2), S0108(0-2)MS, and S0108(0-2)MSD for VOCs, SVOCs, metals, and PCB field test		
			1.5			SM				
5	48	44	0.0			SP	Moist, tan / brown SAND with silt			
			0.0	4		gr.	Main and About alles GAND			
10	48	37	0.9	Y		SM	Moist, tan / brown silty SAND			
	-		0.8							
	48	48	0.2	V		SP	Moist, tan, fine grained SAND	0910 Sample S0108(13-15) and S0108(13-15)EB for VOCs, SVOCs,		
15	-		0.8					metals, and PCB field test End of Boring		
20										
T 8/25/04										
URS (ENVIRON) LOG 2156/197.GPJ URSSTLEV.GDT 8/25/04 Logical Drilli Company Co										
Com	oletion D	epth:	1	6.00 Ft.			Water Depth: _	N/A ft., After ATD hrs.		
Proje	ct No.: ct Name		2156138	8.00000)	rich Phase	Water Depth:	ft., After hrs. at time of drilling		
Drilli Drilli		ractor: od: —	R	loberts	Enviro Geo	nmental Di probe	water level 3" Clear Ace Hollow Stem	after drilling Geoprobe Macro Sampler state Liner Unified Soil Classification based on field visual		
URS (EI	ou by.		<u>a </u>	- +	,		URS ATD - At time			

								LOG OF BORING			
								S0109			
	Deptin in leet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
\vdash	\top					0 40 40 40 4 40 40 40 4	TOPSOIL	TOPSOIL with grass cover	NOTES		
		48	36	1.0	X X			Moist, brown, low plasticity sandy SILT	1015 Sample S0109(0-2), S0109(0-2)MS, and S0109(0-2)MSD for VOCs, SVOCs, metals, and PCB field test		
	-										
	5	48	39	4.7			ML	Becomes very moist			
İ	F			3.4							
								Moist, brown, fine grained silty SAND			
1	10 -	48	30	0.0	V		SM				
				1.1							
		48	46	2.4	V		ML	Moist, brown, low plastic SILT with fine grained clayey sand	1035 Sample S0109(13-15) for VOCs, SVOCs, metals, and PCB field test		
1	15			3.4				-Becomes wet and gray	End of Boring		
	L										
Ι.											
'	20										
4		<u> </u>									
8/25/0											
GDT &											
ILEV.(1									
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04	\vdash	-									
GB. 1											
Co 7.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		letion D		•	6.00 Ft.		-		V/A ft., After ATD hrs.		
2 Pr	Project No.:			2156138			rich Phase		ft., After hrs.		
D ₁	Project Name: Drilling Contractor:							₩ Water level after	er drilling		
D ₁	Drilling Contractor: Drilling method: —					Geo	probe	3" Clear Acetate Hollow Stem Au			
<u>≅</u> Lo	Logged by:			Ste				TTDC NX Wireline Co	re Barrel observations.		
URS								ATD - At time of	drilling		

	#			:		LOG OF BORING S0110					
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
						47 47 47 47 2 47 47 47 47 47 47 5	TOPSOIL	TOPSOIL with grass cover	NOTES		
		48	24	0.0	V		FILL	Brown, low plastic sandy silt FILL with brick and cinders	1130 Sample S0110(0-2) for VOCs, SVOCs, metals, and PCB field test		
					A			Dry, brown, fine grained SAND			
	5	_		0.3	V		SP				
	-	48	38		X			Moist, brown, low plastic sandy SILT	_		
	-			0.0	A		ML				
								Dry, brown, fine grained SAND with silt			
	10	48	36								
									Could not retrieve tube with sample; therefore, no headspace was able to be taken, the material was logged as it fell		
	-						SP	Grades to no silt	out of the tube.		
	-			0.0	V						
	15	48	44	0.0					1215 Sample S0110(13-15) for VOCs, SVOCs, metals, and PCB field test		
	:			0.0					End of Boring		
									,		
	:	<u> </u>				:					
	20	1									
	20										
8/25/04	-	_									
EV.GDT											
J URSSTI	-	_	1								
-	Completion Depth	-		6.00 Ft.		<u></u> -	Water Depth:N	N/A ft., After ATD hrs.			
3G 215g A	Project Name:			I	Krumm	rich Phase	I	_			
TRON) L	Drilling Contractor: Drilling method:					Geo	nmental Dr probe	Value Water level after drilling ✓ Geoprobe Macro Sa 3" Clear Acetate Liner Unified Soil Classif Hollow Stem Auger based on field visua			
JRS (ENV	Logged by:			Ste	ve Shro	off		NX Wireline Core Barrel observations. ATD - At time of drilling			
											

								LOG OF BO S0111	RING
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
		48	10	5.6			ML	Moist, black sandy SILT	1115 Sample S0111(0-2) for VOCs, SVOCs, metals, and PCB field test
	5			6.7	V		SM	Moist, tan silty SAND	
		48	42	7.7	Å		CL-ML	Medium stiff, moist, tan silty CLAY	
	45	-	46	8.2	V	<i>(XXXX</i>)		Moist, brown, mottled SAND with some silt	
	10	48	48	7.4	Å		SP		PID readings are high due to humidity
	_	48	34	7.0			SM	Moist, tan, fine grained silty SAND	
	15	_		6.4					1125 Sample S0111(13-15) for VOCs, SVOCs, metals, and PCB field test
									End of Boring
	20	_							
25/04	20								
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04									
197.GPJ URS	Comr	oletion D	epth:	1	6.00 Ft.			Water Depth: N	I/A ft., After ATD hrs.
215611	Proje	ct No.:		2156138	8.00000		rich Phase	Water Depth:	ft., After hrs.
N) LOG	Drilli	ng Conti	actor:	R	loberts	Enviro	nmental Dr	- TV-4110-	er drilling
S (ENVIRC		ng metho ed by:		ge Jones			-	Hollow Stem Au NX Wireline Co ATD - At time of	nger based on field visual re Barrel observations.
띩								ATD - At time of	dining

	The section of the se						LOG	OF BORING S0112	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A	NOTTO	
						ML-CL	DESCRIPTION Dry, brown clayey SILT	NOTES	
	48	36	0.0	V		SM	Dry, black silty SAND Becomes moist and brown	1030 Sample S0112(0-2) for VOCs, SVOCs, metals, and PCB field test	
_			0.0			SP	Moist, brown SAND		
5	48	39	0.3				Moist, brown / tan, fine grained silty SANI	D	
	-	39	0.0	A		SM			
	_		0.4	V			Becomes wet	1035 Sample S0112(7-9) for VOCs, SVOCs, metals, and PCB field test	
10	48	42	0.3	Å			Soft to stiff, tan, soft to stiff silty CLAY		
			0.6	V		CL-ML			
15	48	35	0.8	Å		SM	Moist, tan silty SAND		
								End of Boring	
20									
T 8/25/04									
URS (ENVIRON) LOG 21561197 GPJ URSSTLEV.GDT 8/25/04 Complete Compl									
J GPJ L									
Comp	oletion D ct No.:		10 2156138	6.00 Ft. 8.00000				Depth: ft., After hrs. Depth: ft., After hrs.	
Proje	ct Name			ŀ	Krumm	rich Phase	I	ter level at time of drilling	
Drilli						nmental Di		tter level after drilling Clear Acetate Liner Geoprobe Macro Sample Unified Soil Classificati	
SENVIEW Logge	ng methe	od: <u>Geor</u>	ge Jones	s/Jennif	Geo er Schv	probe vent	TIDC I NX	llow Stem Auger based on field visual observations. - At time of drilling	υŊ
			•						_

							LO	G OF BORING S0113						
Depth In feet	Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A							
						ML	DESCRIPTION Moist, black clayey sandy SILT	NOTES						
	48	34	4.4			WIL	Moist, tan, fine grained silty SAND	1210 Sample S0113(0-2) for VOCs, SVOCs, metals, and PCB field test						
			4.2	A		SM								
5	- 48	48	2.6				Sivi	Becomes mottled						
			4.2							N		ML-CL	Medium stiff, moist, tan, mottled silty CL	AY
10-	48	48	3.7	V		CL	Medium stiff to stiff, moist, , tan / brown, CLAY	mottled						
			3.7	A			Dry, tan / brown, fine grained silty SAND							
			4.4	V		SM	Becomes moist							
15	48	43	4.5	À			With some clay	1215 Sample S0113(13-15) and S0113(13-15)D for VOCs, SVOCs, metals and PCB field test						
								End of Boring						
20														
Т 8/25/04														
URS (ENVIRON) LOG 2156/197.GPJ URSSTLEV.GDT 8/25/04 Togoda A Looje Carrent Ca														
OF Comr	oletion D	enth:	10	6.00 Ft.			Water	Depth: N/A ft., After ATD hrs.						
Proje	ct No.:		2156138	8.00000)	• -	Water	Depth: ft., After hrs.						
Proje		actor:	R	Roberts	Enviro	rich Phase nmental Dr probe	illing Inc Wa	ter level at time of drilling ter level after drilling Clear Acetate Liner Unified Soil Classification						
Pull Logg	ng metne ed by:		rge Jones				TIDC DNX	llow Stem Auger based on field visual observations. - At time of drilling						

		:						LOG OF BORING S0114			
4 de C		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	uscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A	NOTES		
					V	5 57 57 57 57 57 57 5 5 57 57 57 52 57 57 5	TOPSOIL	DESCRIPTION TOPSOIL with grass cover	NOTES		
		48	36	0.0				Moist, brown, fine grained silty SAND	1345 Sample S0114(0-2) for VOCs, SVOCs, metals, and PCB field test		
				2.1	A		SM	Becomes dry			
	_	-					CL	Moist, brown silty CLAY Brown, fine grained silty SAND			
	5	48	48	0.0	V		SM				
				0.0	A		ML	Wet, brown, low plastic sandy SILT	_		
	-				V			Moist, brown, low plastic silty CLAY			
	o	48	48	3.5	Y		CL-ML				
	_			4.8				Moist, brown, low plastic clayey SILT with fine	_		
							ML-CL	grained sand			
1	5	48	24	1.4	X		SM	Brown, fine grained SAND	1405 Sample S0114(13-15) for VOCs, SVOCs, metals, and PCB field test		
									End of Boring		
		<u>.</u>									
2	0										
5/04	-										
GDT 8/26		-									
SSTLEV											
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04 D. D		1 =			6.00 Ft.			W. B.	N/A A AA ATD :		
2156118 C.C.	ojec	letion D t No.:		2156138	8.00000)		Water Depth:	N/A ft., After ATD hrs. ft., After hrs. hrs.		
Pro Dr	illir	ng Conti	ractor:		Roberts	Enviro		illing Inc Water level at ▼ Water level aft ▼ Water Acetate	er drilling Geoprobe Macro Sampler		
For To	Drilling method:			ve Shro		probe	Hollow Stem A NX Wireline Co	uger based on field visual observations.			
URS								ATD - At time of	drilling		

								LOG OF BO S0201	RING
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
						2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	TOPSOIL	TOPSOIL with grass cover	
					V		ML	Dry, brown, low plastic sandy SILT	1600 Sample S0201(0-2) and S0201(0-2)EB for VOCs, SVOCs, metals, and PCB field test
		48	35	0.0			SM	Dry, brown, fine grained silty SAND	metals, and PCB field test
						\mathbf{H}		Wet, brown, low plastic sandy SILT	_
	5			0.0	V		ML		Perched water
		48	38					Moist, brown silty CLAY	
				0.3			CL-ML		
								Dry, brown, fine grained SAND	-
				0.0	V			, , ,	
	10	48	36		X				
	_			0.0					
				0.0					
ı							SP		
					V				
ı		48	40		Y				1620 Sample \$0201(12, 15) for VOCe
ı	45								1620 Sample S0201(13-15) for VOCs, SVOCs, metals, and PCB field test
ı	15								
									End of Boring
l		-							
ŀ									
		1							
	-	1						·	
	20								
Ş									
07/0	-	1				:			
V.GD									
STLE									
URS S		1							
97.GP.	omn	letion D	enth:	1	6.00 Ft.	<u> </u>		Water Denth:	N/A ft., After ATD hrs.
15611 D	rojec	t No.:		2156138	8.00000)	-	Water Depth:	ft., After hrs.
P P							rich Phase	■ 37 7-411 - Ω	
		_					nmental Dr probe	3" Clear Acetate	e Liner Unified Soil Classification
L	Drilling method: Geoprobe Logged by: Steve Schroff							Hollow Stem A NX Wireline Co	ore Barrel observations.
Completion Depth: 16.00 Ft. Project No.: 21561388.00000 Project Name: Krummrich Phase I Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Logged by: Steve Schroff URS							ATD - At time of	drilling	

							LOG OF BORING S0202			
eet							30202	· · · · · · · · · · · · · · · · · · ·		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
						TOPSOIL	TOPSOIL with grass cover Moist, brown, low plastic sandy clayey SILT			
-	48	28	0.0	V		ML-CL	Moist, brown, low plastic sandy clayey StL 1	1435 Sample S0202(0-2) for VOCs, SVOCs, metals, and PCB field test		
-						SP	Moist, brown, fine grained SAND			
				7		ML	Moist, brown, low plastic sandy SILT			
5	48	35	0.0	Y		SP	Moist, brown, fine grained SAND			
			0.0				Moist, brown, low plastic sandy SILT			
			0.2	V		MŁ				
10	48	21	0.5				Moist, brown, fine grained SAND			
			0.2	7		SP				
15	48	48	0.3					1500 Sample S0202(13-15) and S0202(13-15)D for VOCs, SVOCs, metals, and PCB field analysis		
	-							End of Boring		
20										
Comp	oletion D			6.00 Ft.				//A ft., After ATD hrs.		
Proje	ct No.:		2156138			- i.a.k. DJ		ft., After hrs.		
	ct Name					rich Phase nmental Di	rilling Inc. Water level after	er drilling		
	ng meth	od:				probe	3" Clear Acetate ■ Hollow Stem Au	Liner Unified Soil Classification		
				ve Schr		····	URS I NX Wireline Co	re Barrel observations.		

							LOG OF BOI S0203	RING									
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES									
			6.6	V		ML	Moist, black clayey sandy SILT	NOTES 1430 Sample S0203(0-2) for VOCs,									
	- 48	31	6.7	Å			Moist, tan silty SAND	SVOCs, metals, and PCB field test									
5			6.9	V		SM											
	48	48	7.4					Å						CL-ML		Becomes wet Soft, moist, brown / tan, mottled silty CLAY Becomes stiff	
			6.8	V		CL-ML	Becomes dry										
10	48	43	6.9	A			Moist, tan / brown, fine grained SAND										
	- 48	97	7.2			SP		1440 Samuela 20000412 15 2 2000									
15	-		7.8					1440 Sample S0203(13-15) for VOCs, SVOCs, metals, and PCB field test End of Boring									
	-							End of Boring									
20	_			-													
	-			:													
	_																
Comp Proje			2156138	16.00 Ft. 88.00000 Krummrich Phase I			Water Depth:										
Drilli Drilli	Project Name:				Enviro Geo	nmental Dr probe	wental Drilling Inc obe Water level after drilling 3" Clear Acetate Liner Uniff W Hollow Stem Auger began										

							LOG OF BOF S0204	RING
Depth In feet	Inhes	Inches	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
					7 77 77 77 70 70 70 70 7	TOPSOIL	TOPSOIL with grass cover	NOTES
-		22	16.1	V			Stiff, dark brown, non-plastic silty CLAY	1205 Sample S0204(0-2) for VOCs, SVOCs, metals, and PCB field test
	48	32	7.2				Soft, moist, brown, low plastic sandy silty CLAY Becomes stiff	
5	48	39	4.6	V		CL-ML		
			3.7				Becomes soft and moist to wet	
10	48	36	2.5	V			Dry to moist, tan, medium grained SAND	
			8.9				Becomes moist to wet	
			12.6	V		SP		
15	48	42	16.6				Becomes moist to wet and coarse grained Becomes dry to moist	1230 Sample S0204(14-16) and S0204(14-16)D for VOCs, SVOCs, metals, and PCB field test End of Boring
20								
Com Proje Proje Drill Drill Logg								
Com	pletion	Depth:	1	6.00 Ft.	<u> </u>		Water Depth: N	/A ft., After ATD hrs.
Proie	-							ft., After hrs.
Proje				F	<u> Crumm</u>	rich Phase	I	me of drilling
Drill	ing Co	ntractor	:F	Roberts		nmental Dr	illing Inc ▼ Water level afte 3" Clear Acetate	T !
Drill Logg	ing me ged by:		orge Jone			probe vent	Hollow Stem Au NX Wireline Cor	ger based on field visual observations.
<u></u>							ATD - At time of c	irilling

							LOG OF BOI S0205	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/26/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	- 48		23.5	V		ML	Brown SILT Moist, black sandy SILT	1535 Sample S0205(0-2) for VOCs, SVOCs, metals, and PCB field test
. 5	- 48	38	6.9			SM	Moist, brown, fine grained silty SAND Becomes black	
-	-	30	13.9	A		ML SM	Wet, dark brown sandy clayey SILT Moist, tan silty SAND	
10-	48	43	15.4			ML	Moist, brown sandy SILT Becomes tan Soft, moist, tan clayey SILT or silty CLAY	
	48	48	20.2			SM ML	Moist, brown / tan, fine grained silty SAND Wet, dark brown sandy clayey SILT	1540 Samula 50205(12.15) for VOCa
15	-		22.4			SM	Moist, tan, fine grained silty SAND	1540 Sample S0205(13-15) for VOCs, SVOCs, metals, and PCB field test
	-							End of Boring
20								
Project Project Drillin	ng Contr ng metho	ractor:	2156138	I Roberts	Krumm Enviro Geo	rich Phase nmental Dr probe vent	Water Depth: ✓ Water level at ti ✓ Water level after ✓ Water level after ✓ Hollow Stem Au	r drilling
-00							URS NX Wireline Con ATD - At time of a	

							LOG OF BO S0200	
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/26/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
						ML	Moist, brown sandy SILT	Notes
						SM	Moist, brown silty SAND	
			21.3	V		3111		1620 Sample S0206(0-2) for VOCs, SVOCs, metals, and PCB field test
-	48	32		Y			Medium stiff, moist, brown silty CLAY	5 vocs, metals, and PCB field test
				$ \mathbf{A} $				
-	1		22.8					
		<u></u>				CL-ML		
5	-		25.5					
				🔻	KAKA		Dry to moist, tan, fine grained silty SAND	
+	48	35					Dif to moist, tail, the granted only office	
	1		17.8					
-	-		18.2					
	40							
10	48	45						
L			19.9			SM		
			19.9					
ŀ		<u> </u>					Becomes moist	
							Decomes moisi	
ŀ	1		19.4	V				
	48	38		🔻				
	40	36						1630 Sample S0206(13-15) and S0206(13-15)EB for VOCs, SVOCs,
15	-		17.1					metals, and PCB field test
					15.11			End of Boring
-	4							
+	1							
20								
20								
	_							
+	-							
	1							
				}				
	1-4' -	<u> </u>	1	6 00 E4	<u></u>	L	W-4 D	N/A A AR ATD 1
_	oletion E ct No.:	-	2156138	6.00 Ft.		-	Water Depth: Water Depth:	N/A ft., After <u>ATD</u> hrs. ft., After hrs.
-	ct No.: ct Name					- rich Phase		
						nmental Di	illing Inc. Water level as	fter drilling Geoprobe Macro Sample
	ng com					probe	■ 3 Clear Aceta	te Liner Unified Soil Classificati
	ng mem ed by:		rge Jone			_	Hollow Stem A	
- 66	,.						URS INX Wireline O	
							AID - At time to	

							LOG OF BOF S0207	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	-		8.7	V		ML-CL	Soft, moist, black silty CLAY or clayey SILT with gravel	
	48	34					Moist, tan silty SAND	1515 Sample S0207(0-2) for VOCs, SVOCs, metals, and PCB field test
			9.6			SM		
5	48	48	8.2	V		CL-ML	Medium stiff, tan, mottled silty CLAY Becomes stiff	
_	-		8.2			- w-	Dry to moist, tan silty SAND	
10	48	32	8.2				2., to more, and only of his	
	-	34	9.9			SM		
	48	41	9.5	V				1520 Carrello 20207(12, 15) and
15	-		8.4			SC SM	Tan silty clayey SAND Dry to moist, tan silty SAND	1520 Sample S0207(13-15) and S0207(13-15)EB for VOCs, SVOCs, metals, and PCB field test
_								End of Boring
20			:				·	
	_							
_								
Proje			2156138)		Water Depth:	/A ft., After ATD hrs. ft., After hrs.
Drilli	ng Conti	actor:		Roberts	Enviro	rich Phase nmental Dr	— 177 , 1 1 A	r drilling
-	ng methe		rge Jone			probe vent	W Hollow Stem Au NX Wireline Con ATD - At time of the	ger based on field visual re Barrel observations.

	•							LOG OF BORING S0208		
Depth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
	\top					5 45 45 45 40 50 50 5	TOPSOIL	TOPSOIL with grass cover	NOTES	
	\mid			3.4	V		SM	Moist, dark brown silty SAND	1115 Sample S0208(0-2) for VOCs,	
i		48	44		Y			Stiff, moist, dark brown, low plastic silty CLAY	SVOCs, metals, and PCB field test	
	-			2.4				Becomes harder		
	-							Becomes softer		
	5		•	2.0	V		G. M.	Becomes soft, brown, and plastic		
		48	39				CL-ML	Becomes stiff		
				3.5				Soft, moist to wet, brown sandy silty CLAY		
				3.9	V					
1.		48	40	3.7						
10		48	40					Moist, tan, medium grained SAND	1130 Sample S0208(9-11) for VOCs, SVOCs, metals, and PCB field test	
				4.3			SP	Becomes wet and gray		
								Soft, wet, brown silty SAND		
				4.2			SM			
15	5	48		4.3			SP	Wet, tan, coarse grained, poorly graded SAND		
	-								End of Boring	
20	0				-					
4									,	
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04 JULY OLD										
STLEV.G										
SPJ URS	_									
Co ₁	mp	letion D	epth:		6.00 Ft.			Water Depth:N	fl., After ATD hrs.	
Pro	-			2156138			rich Phase		ft., After hrs.	
Dri							nmental Dr	Water level after	er drilling	
Dri	llir	ig meth	od: _			Geo	probe		lger based on field visual	
EN Log	gge	d by:	Kin	1 Hoskins	s/Jennif	er Schv	vent	URS NX Wireline Co	re Barrel observations.	
ğ								ATD - At time of	uinng	

:							LOG OF BO S0209	
Depth In feet	Inhes	inches	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
					2 42 42 42 20 42 42 5	TOPSOIL	TOPSOIL with grass cover	NOTES
	48	48	0.9	V			Hard, moist, dark brown, non-plastic silty CLAY	1020 Sample S0209(0-2) for VOCs, SVOCs, metals, and PCB field test
			2.1			CL-ML	Soft, moist, brown, plastic sandy silty CLAY	
5	48	44	1.4	V			Becomes moist to wet	
			2.2			SP	Becomes hard and moist with rust colored mottles Moist, brown / tan, medium grained SAND Hard, moist, brown, plastic sandy silty CLAY	
10	48	48	1.9			CL-ML SP	Moist, tan, medium grained SAND	
ï	-	10	1.8	A		SM	Moist, brown silty SAND Becomes soft and moist to wet	
			1.6	V			Moist, tan, coarse grained, poorly graded SAND	_
15	48	33	0.8	Å		SP		1045 Sample S0209(13-15) for VOCs, SVOCs, metals, and PCB field test
								End of Boring
				:				
20								
Com Proje Proje Drill Drill								
Com	pletion	Depth:	1 2156138	6.00 Ft. 8.00000				N/A ft., After <u>ATD</u> hrs. ft., After hrs.
Proj	ect Nam	ne:		ŀ	<u> Krumm</u>	rich Phase	I	time of drilling
Drill Drill Logs	Orilling Contractor:				Geo	probe	3" Clear Acetate By Hollow Stem A	e Liner Unified Soil Classification uger based on field visual
- 60								drilling

l								LOG OF BOI S0210	RING	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
r								Brown, medium grained, poorly graded silty SAND	NOTES	
	-	48	40	5.3	Y				0915 Sample S0210(0-2) for VOCs, SVOCs, metals, and PCB field test	
				9.6	A					
	5	- 48	40	7.9	V		SM	Becomes moist		
		-		9.6				Becomes fine grained		
	40	40	40	8.9	V			Becomes coarse grained		
	10	48	48					Becomes moist to wet and fine grained Soft, wet, brown sandy SILT		
ı				9.4						
	-	<u> </u>		8.5	V		ML			
	15	48	36	8.7	Å			Becomes tan and coarse grained Becomes moist and fine grained	0935 Sample S0210(13-15) for VOCs, SVOCs, metals, and PCB field test	
								Becomes dry	End of Boring	
	-									
	20									
8										
GDT 8/25/										
RSSTLEV.										
7.GPJ U					C 00 TC			w . w . r	I/A O AO ATD	
2156119	Proje	oletion D ct No.:	;	2156138				Water Depth:	MA ft., AfterATD hrs. ft., After hrs.	
) LOG	Project Name:						rich Phase nmental Di	illing Inc	✓ Water level at time of drilling ✓ Water level after drilling ✓ Geoprobe Macro Sampler	
NON I	Drilli	ng metho	od:	Hoskins		Geo	probe	3" Clear Acetate Hollow Stem At NX Wireline Co ATD - At time of	nger based on field visual observations.	
۶L										

								LOG OF BO S0211	RING
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/28/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
		48	40	5.6	Y		CL-ML	Moist, dark brown silty CLAY	NOTES 1015 Sample S0211(0-2) and S0211(0-2)EB for VOCs, SVOCs, metals, and PCB field test
	-	_		4.3	A		ML	Moist, brown sandy SILT Moist, tan, fine grained silty SAND	
	5	48	44	3.0	Y		SM	Nioist, tall, fille grained sitty SAND	
	10	48	48	2.9			Moist, tan, medium grained SAND Becomes fine to medium grained		
				3.0				becomes the to medium gramed	
		48	48	4.2			SP		
	15		10	4.6	A				1020 Sample S0211(13-15) for VOCs, SVOCs, metals, and PCB field test
		-							End of Boring
4	20								
V.GDT 8/25/0-									
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04									
61197.0		letion D		1 2156138	6.00 Ft. 8 00000				N/A ft., After <u>ATD</u> hrs. ft., After hrs.
JG 215	roje	t Name			I	<u> Krumm</u>	rich Phase	<u> </u>	time of drilling
I (N)		_					nmental Dr probe	3" Clear Acetate	Liner Unified Soil Classification
S (ENVIR	Drilling method: Geoprobe Logged by: George Jones/Jennifer Schwent						_	Hollow Stem And NX Wireline Co	uger based on field visual observations.
Ŗ_								ATD - At time of	or malig

								LOG OF BORING S0212				
	Depth In feet	Inhes	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/28/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES			
				-			CL-ML	Medium stiff, moist, dark brown silty CLAY	NOTES			
		48	38	3.5 6.4				Moist, dark brown, fine grained silty SAND Becomes tan	1115 Sample S0212(0-2) for VOCs, SVOCs, metals, and PCB field test			
	5	48	42	8.2				Moist, dark brown clayey silty SAND Moist, tan silty SAND				
		48 48		6.0								
	10		48	7.3	V		SM					
				7.3								
	15	48					With some clay	1125 Sample S0212(13-15) for VOCs, SVOCs, metals, and PCB field test				
									End of Boring			
8/25/04	20											
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04	-											
561197		pletion : ect No.:	Depth:	16 21561388	5.00 Ft. 3.00000				N/A ft., After <u>ATD</u> hrs. ft., After hrs.			
JG 21t	Proje	ct Nam	e:		K		rich Phase	<u> </u>	time of drilling			
Project Name: Krummrich Phase I Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Logged by: George Jones Water								Liner Unified Soil Classification				
URS (E		Í						URS I NX Wireline Co				

								LOG OF BO	RING	
	Depth In feet	inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
		48	39	14.7	V		ML	Brown / black sandy SILT	1515 Sample S0213(0-2) for VOCs, SVOCs, metals, and PCB field test	
	-	40	39	17.0	A		SM	Brown, fine grained silty SAND		
	5	48	44	14.4	V		Jiří	Soft, wet, brown sandy SILT		
	-			16.2			ML	Dry, tan, medium grained SAND		
	10	48	48 36	11.0		SP	Becomes fine to medium grained Becomes moist			
	-			11.3						
	15	- 48 48	48	10.3			Becomes dry	1535 Sample S0213(13-15) for VOCs, SVOCs, metals, and PCB field test		
i									End of Boring	
	-									
25/04	20			:						
IRSSTLEV.GDT 8										
561197.GPJ (Com	pletion D	epth:		6.00 Ft. 8.00000		-	Water Depth:	N/A ft., After ATD hrs. ft., After hrs.	
Completion Depth: 16.00 Ft. Project No.: 21561388.00000 Project Name: Krummrich Phase I Drilling Contractor: Roberts Environmental Drilling I Drilling method: Geoprobe Logged by: Kim Hoskins/Jennifer Schwent								<u>V</u> Water level at t	ime of drilling er drilling Example: Liner uger uger uger uger uger uger uger ug	

							LOG OF BOI S0301	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
				V		ML	Moist, black sandy SILT	1625 Sample S0301(0-2) for VOCs, SVOCs, metals, and PCB field test
	48	33	2.3	Y			Moist, tan, fine grained silty SAND	
			0.3					
5	48	32	1.7		SM			
			1.3					
			2.1	V				
10	48	48		X		CL-ML	Medium stiff, wet, tan silty CLAY Becomes wet (1') Moist, tan, mottled, medium coarse grained SAND	
	_		0.9					
	_		1.2	V		SP		
	48	48						
15			1.3					1630 Sample S0301(13-15) and S0301(13-15)D for VOCs, SVOCs, metals, and PCB field test
								End of Boring
20								
	_							:
_								
Comp	oletion I	epth:		6.00 Ft.		-		//A ft., After ATD hrs.
Projec	ct Name	:	<u>2156138</u>	I	Krumm	rich Phase	<u>V</u> Water level at t	
Drilli	ng meth	od:	rge Jone		Geo	nmental Di probe	3" Clear Acetate	Liner Unified Soil Classificatinger based on field visual
Logge	ed by:	Geol	ус эопе	s/Jennii	er senv	wellt	URS INX Wireline Co	

							LOG OF BO	
Depth In feet	Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
			1.0	V		ML	Brown clayey sandy SILT	
	48	29	0.7			ML-CL	Medium stiff, moist, brown, mottled silty sandy CLAY or sandy clayey SILT	1520 Sample S0302(0-2) for VOCs, SVOCs, metals, and PCB field test
5	40	20	0.8				Soft, moist, brown clayey SILT Becomes wet Wet, brown, fine grained clayey silty SAND	_
	48	39	3.6			SM	Becomes moist	
10	48	27	0.6				Becomes medium coarse Medium stiff, moist, brown silty CLAY	
	_		1.4	4		CL-ML	Becomes soft	
15	48	44	0.1	X		SM	Moist, tan, mottled, fine grained silty SAND with some clay Becomes fine to medium grained	1530 Sample S0302(13-15) for VOCs, SVOCs, metals, and PCB field test
_								End of Boring
20								
STLEV.GDT 8/25/04								
97.GPJ URE	oletion D	enth:	1	6.00 Ft.			Water Denth: N	N/A ft., After ATD hrs.
Project	ct No.:		2156138	8.00000		-	Water Depth:	ft., After hrs.
Drilli Drilli	Project Name: Drilling Contractor: Drilling method:		F	Roberts	Enviro Geo	probe	_ 177 . 1 1 0	er drilling Liner Unified Soil Classification based on field visual observations.

							LOG OF BOI S0303	RING		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/13/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
			14.7	V		ML	Moist, black sandy SILT	NOTES		
	48	27	14.7	X			Stiff, dry to moist, gray / black silty CLAY	1425 Sample S0303(2-4) for VOCs, SVOCs, metals, and PCB field test		
	-		17.0			CL-ML				
5			10.4	V		ML-CŁ	Becomes medium stiff, moist, brown, and mottled Soft, wet, brown clayey SILT			
- -	- 48	43	12.1	Å		CL-ML	Medium stiff, moist, brown, mottled silty CLAY Becomes wet			
			14.2	V			Becomes soft and moist Dry to moist, tan, fine grained SAND			
10	48	48	12.6	Å		SP	·			
	- 48	37	12.8	V		CL-ML	Soft, moist, brown silty CLAY or clayey SILT Moist, tan, mottled, fine grained SAND			
15			14.7			SP	Becomes wet and gray	1435 Sample S0303(13-15) for VOCs, SVOCs, metals, and PCB field test		
-								End of Boring		
20										
			-	600 E			W. D. J. A	//Λ Ω ΛΩ. ATD .		
Proje	oletion D ct No.: ct Name		2156138)	- rich Phase	Water Depth: ✓ Water level at t			
Drilli Drilli	Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Logged by: George Jones/Jennifer Schwent Water level after drilling 3" Clear Acetate Liner Hollow Stem Auger NX Wireline Core Barrel NX Wireline Core Barrel									
	-					•	URS I NX Wireline Co			

							LOG OF BOI S0401	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/26/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
						ML	Brown SILT with gray gravel	
-	- - 48 -	46	20.2	X		ML-CL	Soft, dry to moist, brown / gray clayey SILT	
5	48	47	25	V			Medium stiff, moist, gray / tan silty CLAY	
			31.5			CL-ML		
							Becomes soft	
			28.8	V		ML-CL	Soft, moist, brown clayey SILT	
10	48	48				CL-ML	Soft, moist, brown silty CLAY	
			23.8	A		SM	Moist, brown / tan, fine grained silty SAND	
						CL-ML	Medium stiff, moist, brown / black silty CLAY	-
	_		18.7	V		SM ML-CL	Moist, brown, fine grained silty SAND	
15	48	45	23.2	Å		SP	Soft, moist, brown / tan clayey SILT Moist, tan, fine grained SAND Becomes wet Becomes moist	1420 Samples S0401(13-15), S0401 (13-15) MS, and S0401(13-15)MSD for VOCs, SVOCs, metals, and PCB field test End of Boring
20			1.	6.00 Ft.			Water Double N	
-	oletion D ct No.:	-	2156138				Water Depth:	### ft., AfterATD hrs. ft., After hrs.
						rich Phase	■ 17 -411 - Δ	
			k			nmental Dr probe	3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification
•	ed by:		rge Jone				INX Wireline Co	ore Barrel observations.
i L							<u> </u>	

							LOG OF BOR S0402	RING		
Depth In feet	Inhes	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/14/03 Casing Elevation: N/A Ground Elevation: N/A			
\vdash	+		 		XXXX		DESCRIPTION White, limestone gravel FILL	NOTES		
	48	40	0.9			FILL	Black cinders and coal FILL			
			1.9			PILL.	Red brick FILL with cinders and coal			
5	48	48	0.9			Stiff, moist, brown, low plastic silty CLAY with trace fine gravel				
			7.8			CL-ML				
10	- 48	48	3.3	3	V				Stiff, moist, brownish-yellow clayey SILT or silty CLAY	
			6.2				Dense, moist, brownish-yellow, fine grained, dense silty SAND			
	48	46	17	V		SM		1345 Sample S0402(13-15) for VOCs,		
15			15			ML	Stiff, moist, brown sandy SILT with clay Dense, moist, brownish-yellow, fine grained silty	SVOCs, metals, and PCB field test		
							SAND	End of Boring		
20										
GDT 8/25/04										
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 972604 Dind Could Cou										
27.GP		Dame!	1	6.00 Ft.	L	<u> </u>	W-A-D-A-N	/A A A Go. ATD 1		
6 D-0:	_	Depth:	2156138			-		/A ft., After <u>ATD</u> hrs. ft., After hrs.		
Dro:			2130130			rich Phase				
Drill							Tilling Inc. ▼ Water level after	r drilling		
Drill	_					probe	3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification		
Log	ged by:			ic Fritso						
URS (URS ATD - At time of a			

							LOG OF BO S0403	ING	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/14/03 Casing Elevation: N/A Ground Elevation: N/A	NOTES	
	 				XXX		DESCRIPTION White limestone gravel FILL	NOTES	
	48	36	5.5	V		FILL	Black cinders and coal FILL with gravel	Strong odor	
			313				Dense, moist, gray, fine grained silty SAND	1505 Sample S0403(2-4) for VOCs, SVOCs, metals, and PCB field test	
5	48	46	39.8			SM			
	-	40	58				Medium dense, moist, gray, fine grained, poorly graded SAND	Strong odor	
10-	48	42	158						
			269		SP	Grades to fine grained sand with trace clay	Hydrocarbon odor		
	48	48	166	V					
15			204				FOD +1(
							EOB at 16'	End of Boring	
20									
URSSTLEY.GDT 802504 Complete									
GPJ URSST									
© Comp	oletion D			6.00 Ft.		-	Water Depth:	N/A ft., After ATD hrs.	
স Proje	ct No.:		2156138			wiah Dhaas		ft., After hrs.	
Proje	ct Name	:	т	l Dobomto		rich Phase	willing Inc. ▼ Water level after	ter drilling	
Drilli Drilli	ng Conti ng meth				3 Clear Acetai	te Liner Unified Soil Classification			
Logo	ng meur ed by:	ou. —		ic Fritso		probe	Hollow Stem A		
URS (E	, .						URS NX Wireline C		

	-						LOG OF BORING S0404		
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/17/03 Casing Elevation: N/A Ground Elevation: N/A	NOTES	
							DESCRIPTION White limestone gravel FILL	NOTES	
-	48	40	2.9	Y		FILL	Silty sandy gravel FILL		
-			1.4				Loose, moist, light gray, fine grained, poorly graded SAND		
5	48	48	2.2		SP				
			2.2						
			2.2	V			Brown, fine to medium grained silty GRAVEL		
10	48	48		X		GM ML-CL	Soft, wet, light brown clayey SILT	Perched water from 10-11'	
			1.0				Dense, dry, brownish-yellow, fine to medium grained, well graded SAND		
	-		1.6	V		sw			
15	48	41	2.7	A			Grading very dense	0930 Sample S0404(13-15) and S0404(13-15)EB for VOCs, SVOCs, metals, and PCB field test	
	-							End of Boring	
20									
55/04									
V.GDT 8/2									
URS (ENVIRON) LOG 21567197. GPJ URSSTLEV.GDT 8/25/04 Logical Description of the control of the									
6 Com	oletion I			 6.00 Ft			Water Depth:N	I/A ft., After ATD hrs.	
Proje	ct No.: ct Name		2156138			rich Phase	I ∑ Water level at t		
Drilli	ng Cont	ractor:		Roberts	Enviro	nmental D	rilling Inc Water level after 3" Clear Acetate	.,	
Drilli	ng meth ed by:	od: _	Eı	ic Frits		probe	Hollow Stem At	based on field visual	
URS (E)	ou by.						URS NX Wireline Co		

							LOG OF BO S0409	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	Completion Date: 3/14/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
			0.0	V		MŁ MŁ-CL	Brown SILT with grass cover Moist, brown clayey SILT Dry, dark brown, fine grained silty SAND	7
	48	38	0.0	À		SM		1440 Sample S0405(2-4) for VOCs, SVOCs, metals, and PCB field test
5			0.0	V		CL	Soft, moist, tan / brown silty sandy CLAY	
	48	35	0.0	Å		SM	Moist, brown / tan, fine grained silty SAND with clay Becomes wet	
10	48	48	0.0	V			Soft, wet, tan / gray sandy silty CLAY	
			0.0			CL-ML	Becomes moist to wet	
	<u> </u>		0.0			SM	Moist, tan / brown, fine grained silty SAND	
	48	38		🔻		CL	Soft, wet, tan / brown sandy CLAY Moist, tan / brown, medium coarse SAND	_
15	40	30	0.0			SP	Most, tail / blowii, ilediulii coalse 3AND	
								End of Boring
20								
	letion D			6.00 Ft.		-		N/A ft., After ATD hrs.
_	t No.:		2156138			rich Phase		ft., After hrs. t time of drilling
Drillir	ng Conti	ractor: od: —		Roberts	Enviro Geo	nmental Dr probe	water level a 3" Clear Aceta ■ 3" Clear Aceta ■ Hollow Stem A	fter drilling ate Liner Auger Geoprobe Macro Sampler Unified Soil Classification based on field visual
TURRE	a oy.		A- 03H6				URS ATD - At time of	

							L	OG OF BOF S0406	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/14/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION		NOTES
							Wet, white, fine grained gravel FILL w Black cinder FILL	rith silt	
	48	34	9.2	X A					Hydrocarbon odor
5	48	48	697			FILL	Moist, gray, fine grained silty sand FIL	L	Hydrocarbon odor
			986	V			—Black cinder FILL Soft, gray silty CLAY		
10	48	48	1074	Å		CL-ML	Becomes wet		Hydrocarbon present 1555 Sample S0406(10-12) for VOCs, SVOCs, metals, and PCB field test
				V		SM	Moist, gray, fine grained silty SAND		
	48	48	656	V		CL-ML	Moist to wet, gray sandy silty CLAY		
15			557			SP	Moist, gray, fine grained SAND		
									End of Boring
20									
	-								
	-								
	letion D	_	10 2156138	6.00 Ft.					/A ft., AfterATD hrs. ft., After hrs.
Projec				1	<u> Krumm</u>	rich Phase	<u> </u>	Water level at ti Water level afte	me of drilling
	ng Contr ng metho	od:			Geo	nmental Dr probe	ming inc	3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification
Logge	d by:	_Geoi	rge Jones	s/Jennii	er Schy	vent	TIDC D	NX Wireline Cor D - At time of o	e Barrel observations.

				LOG OF BORING S0407				
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/17/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	31	2.5	Y		FILL	Gray gravel FILL with silt Black / brown cinder FILL with wood Medium stiff, brown silty clay FILL with black cinders Black / red / brown cinder FILL with silty clay	NOTES
			7.7	4				
5	48	48	247	V		GP	White GRAVEL with soft, moist, gray silty clay Medium stiff, moist, black silty CLAY	Hydrocarbon odor
			314			CL-ML	Moist, gray, fine grained silty SAND	
	48	45	675				, , , , , , , , , , , , , , , , , , , ,	Hydrocarbon odor
10	48	45	923			SM		0940 Sample S0407(12-14) and S0407(12-14) EB for VOCs, SVOCs, metals, and PCB field test
	48	48	965					Hydrocarbon odor
15			896					End of Boring
-								End of Boring
20			r					
Comp Proje Proje Drilli Drilli Logge			ı					
Comr	oletion D	enth:	10	6.00 Ft.			Water Denth:	N/A ft., After ATD hrs.
Proje	ct No.:	-	2156138	8.00000	1		Water Depth:	ft., After hrs.
Proje Drilli		actor:	R	Roberts	Enviro	rich Phase nmental Dr probe	illing Inc Water level af 3" Clear Aceta	fter drilling
Logge			rge Jones			_	URS Hollow Stem A NX Wireline C ATD - At time o	Auger based on field visual observations.

	et							LOG OF BO S0408		
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	SOSO	Completion Date: 3/17/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
								White limestone gravel FILL	NOTES	
		48	41	1.1	V					
	-	_		2.5	4		FILL	Sandy silty gravel FILL Loose, moist, dark gray to dark brown silty SAND		
	5	48	36	1474	V					
		1678			Loose, moist, dark gray to dark brown shity SAND	Staining and hydrocarbon odor from 6-8' 1030 Sample S0408(6-8) for VOC, SVOC, metals, and PCB field test				
	10	48	48	1470			SM		Staining	
				859						
		48	40	1540			SP	Dense, moist, brown, fine grained, poorly graded SAND		
	15	_		1200						
	-	_							End of Boring	
		_								
3/04	20									
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04	-						:			
7.GPJ URSST					(00.7)				N/A 0 10 177	
561197		pletion D ct No.:		10 2156138	6.00 Ft. 8.00000				N/A ft., After <u>ATD</u> hrs. ft., After hrs.	
JG 21	Proje	ct Name			I	Krumm	rich Phase	Y Water level at t	time of drilling	
(NO)	Drilling Contractor: Drilling method:						nmental Dr probe	3" Clear Acetate	tte Liner Unified Soil Classification	
(ENVIF	Logged by:		·-				Hollow Stem And NX Wireline Co	ore Barrel observations.		
URS								ATD - At time of	drilling	

					LOG OF BOI S0409	RING		
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/17/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
							Moist, gray gravel and silt FILL with tan silty clay	NOTES
	48	39	10.4	Y			Dry to moist, tan / brown / black cinder FILL	Slight hydrocarbon odor
			14				Stiff, dry, gray sandy silty clay FILL with cinders	
5	48	48	18	V			Moist, gray, fine grained silty sand FILL	Slight hydrocarbon odor
			462			FILL		Hudronakon odar
10	48	37	97.1	V			Becomes wet Soft, wet, gray silty clay FILL Moist, black, fine grained silty sand FILL	Hydrocarbon odor
	-		490	4				1030 Sample S0409(10-12) for VOCs, SVOCs, metals, and PCB field test
	48	48	124	Y			Becomes wet	Hydrocarbon odor
15			466			SP	Black cinder FILL Moist, black, fine grained SAND with some clay	E.J. CD.
-								End of Boring
20								
	-							
Comp Projec Projec Drillin Drillin Logge	_							
Comp	letion D	epth:	1	6.00 Ft.			Water Depth:	N/A ft., After ATD hrs.
Projec	et No.:		2156138	8.00000)	•	Water Depth:	ft., After hrs.
Projec			т			rich Phase	— W 1 1 0	
Drillii Drillii	ng Conti		b				3" Clear Acetate	Liner Unified Soil Classification
Logge	_		rge Jone			-	Hollow Stem Au NX Wireline Co	
							URS ATD - At time of	

							LOG OF BOI S0410	RING
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	Completion Date: 3/14/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	39	6.8	V		FILL	White gravel and silt FILL Dry, dark brown silty sand FILL with black cinders Moist, tan silty sand FILL	NOTES
5	48	48	3.4			SM CL-ML		
10	48	48	104			SM	Moist, dark brown silty SAND Soft to medium stiff, moist, gray sandy Silty CLAY	Odor at 8'
	40	40	83.2			CL-ML		
15	48	48	242			SP	Moist, gray, fine grained SAND	Sheen from 13.5-14' 1135 Sample S0410(13-15) and S0410(13-15)D for VOCs, SVOCs, metals, and PCB field test Hydrocarbon odor End of Boring
71 8/25/04 00								
97.GPJ URSSTLEV.GD	plotics F)onth:	1	6 00 F+			Water Darth N	//A ft After ATD has
Proje Proje Drill Drill	ect No.: ect Name	ne: Krummrich Phase I ntractor: Roberts Environmental Dri					₩ Water Level - Ann delition . ■	

								LOG OF BOI S0411	RING
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/14/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
				6.5	V		FILL	White limestone gravel FILL	NOTES
		48	41	10.5	Å		CL-ML	Soft, moist, dark brown, low plastic silty CLAY Moist, brownish-yellow, fine grained silty SAND	
	5			10.5	V		SM		
		48	48	6.6	À		CL-ML	Stiff, very moist silty CLAY	
				4.8	V		SP CL-ML	Fine grained SAND Soft, moist, brown, low plastic silty CLAY	Perched water at 8'
	10	48	48	9.5	Å			Dense, wet, olive gray, fine grained silty SAND	
		48	48	5.0	V		SM	Becomes loose and dry	Perched water layer, became dry beneath
	15	-	40	112			-		1110 Sample S0411(14-16) and S0411(14-16)D for VOCs, SVOCs, metals, and PCB field test Strong odor at 15'
		-							End of Boring
	20-	-							
3/25/04	-								
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04						į			
GPJ UI					-				
1561197	_	oletion Det No.:	-	1 2156138	6.00 Ft. 8.00000		- -	Water Depth:	//A ft., After <u>ATD</u> hrs. ft., After hrs.
0G 21	roje	ct Name	:			Krumm	rich Phase	Y Water level at ti	ime of drilling
I I I	Orilli	ng meth	od:			Geo	nmental Dr probe	3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification based on field visual
IRS (ENV	ogge	ed by:		Eri	ic Fritso	e <u>h</u>		URS NX Wireline Con	re Barrel observations.
									<u> </u>

	LOG OF BO S0412		ling					
Depth In feet	Inhes	Inches	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
			7.8	V		ASPHALT FILL	ASPHALT Crushed, white limestone FILL with cinders	
	48	48	10.3	Å	KXXX 	SM	Medium dense, moist, brown, fine grained silty SAND	
5	48	48	12.6	V			Soft, brown clayey SILT	
			13.2			ML-CL		Perched water at 7'
10	48	40	10.6	Y		CL-ML	Stiff, moist, brown, low plastic silty CLAY	
			13			SM	Medium dense, moist, brown, fine grained silty SAND	
	48	48	13.7	V		CL-ML	Stiff, moist, brown silty CLAY Dense, moist, brown, fine grained, poorly graded SAND	1440 Sample S0412(13-15) for VOCs, SVOCs, metals, and PCB field test
15			14.9			SP		End of Boring
20								
GDT 8/25/04								
GPJ URSSTLEV								
Projection Projection Drill	ect No.: ect Nan ing Coi	ne: ntractor:	2156138	l Roberts	Krumm Enviro	rich Phase nmental Di	Water Depth:	drilling Geoprobe Macro Sampler Liner Unified Soil Classification
Logi Logi	ing met ged by:	.noa: _	Er	ger based on field visual e Barrel observations. rilling				

							LOG OF BO S0413			
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
	48	34	63 9413	Y		FILL CL-ML SM	Moist, white gravel FILL with gray silty clay Stiff, dry to moist, brown silty CLAY Moist, brown, fine grained silty SAND Stiff, dry to moist, brown silty CLAY			
5	- 48	38	9999+			CL-ML	Becomes soft Becomes wet Becomes stiff and moist Becomes soft			
10	48	40	9999+	V A			Soft, moist, gray silty CLAY Moist, gray, fine grained silty SAND	Solvent odor at 10' 1100 Sample S0413(10-12) and		
15	- 48	40		V A		SM		S0413(10-12)D for VOCs, SVOCs, metals, and PCB field test		
								End of Boring		
20	-									
	letion D			6.00 Ft.		-		N/A ft., After ATD hrs.		
Project No.: 21561388.00000								ft., After hrs.		
Projec	Drilling Contractor: Poharte Environmental Drilling Inc.							ter drilling Geoprobe Macro Sampler		
Drilli	ng meth	od: _			Geo	probe	3" Clear Aceta M Hollow Stem A	te Liner Unified Soil Classification Auger based on field visual		
Logge	ed by:	Geo	rge Jone	s/Jennii	er Schv	went	URS INX Wireline C			

							LOG OF BORING S0414		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	uscs	Completion Date: 3/20/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
	48	34	7.2	Y		FiLL	Moist, gray gravel FILL with sand Black, low plastic clay FILL with cinders and gravel Becomes sandy with less gravel	0915 Sample S0414 (4-6) for VOCs,	
			10.8	4			Becomes brown	SVOCs, metals, and PCB field test	
5	48	38	7.0	V		CL-ML	Light brown sand FILL Soft, moist, black, high plastic silty CLAY Becomes light brown, non-plastic, and sandy	DID and in a sure desired disease	
	_		2.8				Becomes wet Moist to wet, light brown silty SAND	PID readings are elevated due to humidity	
			9.0	V		SM	Moist, Light brown SAND with dark brown clay and cinders		
10	48	48	13.3	Å	7777	SP	Becomes tan Becomes light brown Becomes orange-brown		
			14.8	V		SM	Moist, brown clayey SAND Soft, wet, light brown silty SAND Becomes gray Becomes tan		
15	48	39	14	Å		SP	With dark brown cinders Wet, light brown, coarse grained, poorly graded SAND		
								End of Boring	
				:					
20	-								
-	letion D at No.:	-	1 2156138	6.00 Ft. 8.00000		-	Water Depth:	/A ft., AfterATD hrs. ft., After hrs.	
Project Name: Krummrich Phase I □ Water level at ti □ Water level at ti □ Water level after □ Water level after □ 3" Clear Acctate							me of drilling r drilling		
Drilling method: Geoprobe Logged by: Jennifer Schwent URS Hollow Stem Au INX Wireline Cor ATD - At time of co								ger based on field visual observations.	

									LOG OF BO S0415	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/20/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTI	ON	NOTES
		48	24	0.0	X A		FILL	White limestone gravel FILL Gravel, brick, sand, and concre		NOTES
	5	48	48	0.0	V			Soft, moist, brown silty SAND		
	10	48	30	0.0			SM			
		48	24	0.0						1045 Sample S0415(12-14) and S0415(12-14)EB for VOCs, SVOCs, metals, and PCB field test
	15									End of Boring
T 8/25/04	20									
GPJ URSSTLEV.GD										
1561197	Completion Depth: Project No.:		21561388					Water Depth:	M/A ft., After <u>ATD</u> hrs. ft., After hrs.	
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04	Drill Drill	ing Con	ractor:		oberts	Enviror Geo	rich Phase nmental Dr probe			

						LOG OF BORING S0416			
Depth in feet	nhao	Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	Completion Date: 3/20/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
		18	30	0.0	Y		FILL	White limestone gravel FILL Red brick FILL Moist cinder and gravel FILL with dark gray silty sand	140120
				0.0	A				Dark staining
5			40	0.0	V			Soft to medium stiff, moist, dark gray, low plastic silty CLAY	0815 Sample S0416(3-5) for VOCs, SVOCs, metals, and PCB field test
		18	40	0.0	A		CL-ML		Possible "sweet" odor
				0.0	V				
10	H '	18	48	0.0			ML-CL	Soft, moist, dark gray clayey SILT	
							SP	Loose, moist, gray, fine grained, poorly graded SAND	
:		18	48	0.0			ML	Stiff, moist, dark gray SILT	
15		+0	40	0.0			SP	Medium dense, moist, dark gray, fine grained, poorly graded, SAND	
									End of Boring
20									
40									
7.GDT 8/25/									
URS (ENVIRON) LOG 21661197.GPJ URSSTLEV.GDT 8/25/04 Jind Loo July Condition of the conditi									
Cou	pletic	n De	pth: _		6.00 Ft.				/A ft., After ATD hrs.
Proj				2156138			rich Phase		ft., After hrs.
Dril				R	•			illing Inc. ▼ Water level after	r drilling
Drill	ling n	ethod				Geo	probe		ger based on field visual
RS (EN	ged by	/: _		Eri	c Fritse	:n		URS INX Wireline Cor	e Barrel observations.
ــــا⊂									-

								LOG OF BOI S0501	RING		
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
		-		4.0	Y		ASPHALT FILL	ASPHALT White limestone gravel FILL	Notice		
		48	48	5.5	Å		ML	Stiff, moist, reddish-brown / purple SILT Stiff, moist, gray, low plastic silty CLAY Medium dense, moist, gray, fine grained silty SAND			
	5	48	40	8.4	V		CL-ML				
				8.7	A		SM				
:	10	48	40	10.3	V		SIVI				
		-	9.8		IIIIII ML	ML	Soft, moist, gray SILT Dense, moist, gray, fine grained, poorly graded SAND	Hydrocarbon odor starting at 11'			
		48	48	11.4	V		SP		1705 Sample S0501(11-13) for VOCs, SVOCs, metals, and PCB field test		
	15			9.4	A				End of Boring		
							;		Sid of Zoring		
	20			·							
8/25/04											
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04								·			
U LAD	,										
561197 C	Completion Depth:						Water Depth: Nater Depth: Water Depth: Water Depth: Water Depth: Nater	/A ft., AfterATD hrs ft., After hrs.			
90 P	Project Name: Krummrich Phase I □ Water level at time □ Water level after □ Water level after □ Water level after							me of drilling			
D D				R			imental Dr probe	3" Clear Acetate	Liner Unified Soil Classification		
T T		ig meind d by:			c Fritsc			Hollow Stem Au NX Wireline Co	ger based on field visual re Barrel observations.		
URS						-		URS NX Wireline Co. ATD - At time of o	drilling		

							LOG OF BORING S0502		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
	48	38	20.3	Y		FILL	Dry, gray silt FILL with white gravel Dry to moist, brown clayey silt FILL with white gravel	NOTES	
5	40	21	448	V		CL-ML	Soft, moist, brown / gray silty CLAY Becomes sandy with gravel Becomes wet Moist, tan / brown, fine grained silty SAND		
	48	31	22					Stained 1720 Sample S0502(6-8) for VOCs, SVOCs, metals, and PCB field test.	
10	48	42	101	V		SM		Solvent odor	
-			900				Grades to gray	Solvent odor	
	48	40	194	Y		CL-ML SM	Soft, dark brown silty CLAY with white gravel Moist, gray, medium coarse silty SAND	Salvara da	
15			72.3					Solvent odor End of Boring	
20									
V.GDT 8/25/04	-								
7.GPJ URSSTLE			41.	6 00 Ex				J/A O AO ATD	
Comp Project	Completion Depth: Project No.:				1		Water Depth:	ft., After ATD hrs.	
Drillin Drillin	Project Name: Drilling Contractor: Drilling method:			I Roberts s/Jennif	Enviro Geo	probe		er drilling Liner uger uger uger uger uger uger uger ug	

ŀ								LOG OF BOF S0503	ING		
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/26/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
	-	- 48	48	42.6			ASPHALT	ASPHALT Dry, gray silt FILL with gravel Dry to moist, gray silty clayey sand FILL with gravel Gray concrete FILL Hard, dry, dark brown clayey silt FILL	Hydrocarbon odor		
	5	- 48	45	50.0				White / gray gravel FILL Soft, wet, dark gray silty clay FILL Becomes white Moist, black, coal and gravel FILL with some brown clayey silt			
ĺ				33.0				Medium stiff, moist, dark gray silty CLAY			
	40	48	45	53.8	V		CL-ML	Becomes soft and wet	Odor from 8-12'		
	10	48	43	858				Moist, dark gray / brown silty SAND	1130 Sample S0503(8-10) and S0503(8-10)D for VOCs, SVOCs, metals, and PCB field test		
	15	48	37	778			SM				
									End of Boring		
4	20										
SSTLEV.GDT 8/25/0											
7.GPJ UR	C	alotiT	landt.	14	6.00 Ft.			Water Darit. N	A A AAA ATD		
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04	Completion Depth: 16.00 Ft. Water Depth: 21561388.00000 Water Depth: 21561388.00000 Water Depth: Project Name: Krummrich Phase I								ger based on field visual observations.		

								LOG OF BO S0504	RING
44.00	Deptin in reet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	Completion Date: 3/25/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
		48	41	2.5	V		FILL	Wet, white gravel FILL with gray silt Medium stiff, dry to moist, tan / gray, mottled silty clay or clayey silt FILL with some gravel and black staining	NOTES
				8.1				Moist, gray sandy silty CLAY	
	5	48	33	6.5			CL-ML	Maict gray silty SAND	
		_	33	9.2				Moist, gray silty SAND	
1	0	48	42	48.8			SM		Hydrocarbon odor at 12'
1	5	36	36	7.5	X		CL	Moist, gray silty sandy CLAY	Stained from 11.5-15' 1130 Samples S0504(13-15) and S0504(13-15)EB for VOCs, SVOCs, metals, and PCB field test End of Boring
									End of Boring
	20								
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04 DT DC									
21561197. Co	Project No.: 21561388.00)	rich Dhas-	Water Depth:	N/A ft., After <u>ATD</u> hrs. ft., After hrs. ime of drilling
URS (ENVIRON) LOG Dr Dr Dr	Project Name:				Roberts	Enviro Geo	probe		er drilling Liner uger uger uger une Barrel Geoprobe Macro Sampler Unified Soil Classification based on field visual observations.

							LOG OF BORING S0505					
	Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	Completion Date: 3/25/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES				
	48	36	3.5	Y		FILL	Stiff, moist, gray silty clay FILL Dry, gray silt FILL with gravel Moist, Red brick and black gravel FILL	NOTEO				
<u>-</u> -			4.8				Moist, tan, fine grained silty sand FILL with black gravel					
5	48	39	7.5	V			Stiff, dry to moist, gray sandy silty CLAY Becomes medium stiff and dry Becomes soft and moist					
			9.4			CL-ML	Becomes wet					
			9.1	V			Gray, fine grained silty SAND	Stained black				
0	48	38	101			SM ————————————————————————————————————	Moist to wet, gray / black sandy silty CLAY	1525 Sample S0505 (10-12) for VOCs, SVOCs, metals, and PCB field test				
			80.5	V		ML	Soft, wet, gray sandy SILT	Stained soils				
5	48	43	35.2	Å		SM	Moist, tan / gray silty SAND with some clay					
								End of Boring				
0												
Н												
			2156138	8.00000			Water Depth:	ft., After ATD hrs. ft., After hrs.				
Drilling Contractor: Drilling method:				loberts	Enviroi Geo	nmental Dr probe	Water level afte 3" Clear Acetate Hollow Stem Au ■ NX Wireline Col	re drilling Liner Unified Soil Classification based on field visual observations.				
	mpl jec jec llin	mpletion D ject No.: ject No.: ject Name: lling Controlling metho	### ### ### ### ### ### ### ### ### ##	3.5 48 36 4.8 5 7.5 48 39 9.4 9.1 0 48 38 101 80.5 48 43 35.2 mpletion Depth:	3.5 48 36 4.8 7.5 48 39 9.4 9.1 0 48 38 101 80.5 48 43 35.2 mpletion Depth:	3.5 48 36 4.8 7.5 48 39 9.4 9.1 0 48 38 101 80.5 48 43 35.2 mpletion Depth: 21561388.00000 eject Name: Krumm lling Contractor: Roberts Envirous lling method: Geo	10	Completion Dam: 3/25/03 Dam: 3				

				:			LOG OF BO S0506	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/25/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
			2.2	V			Gray clayey silt FILL with gravel Moist, gray clayey silty sand FILL with gravel	Hydrocarbon odor from 1-4'
-	48	47	87.2	Å		FILL		
5-			27.7	V				Gray staining from 4-8'
	48	30	19.1			Medium stiff, moist, gray silty CLAY Becomes soft		
			66.1	V		SM CL-ML	Moist, gray / black silty SAND Medium stiff, moist, gray sandy silty CLAY	
10	48	48	9999+			SM	Moist, gray / black, fine grained silty SAND	Black staining from 8-12'
-	_		1300	T		CL-ML	Soft, moist, black sandy Silty CLAY	
15	48	48	9999+	Å			Moist, gray, stained, fine grained silty SAND	1625 Sample S0506 (13-15) for VOCs, SVOCs, metals, and PCB field test
<u>.</u>	48	48	79.6	V		SM		
20							Becomes medium coarse	Lightly stained
URS (ENVIRON) LOG 21661197 GPJ URSSTLEV.GDT 8/25/04 Lind Com	_							End of Boring
197.GPJ URSS	pletion D	Depth:		0.00 Ft.			Water Depth:	N/A ft., After ATD hrs.
Proje			2156138			rich Phase		ft., After hrs.
Drilli	ing Cont	ractor:	F	Roberts	Enviro	nmental Dr	water level after 3" Clear Acetate	er drilling
Drilli Logg	ng meth ed by:		rge Jone				Hollow Stem A	uger based on field visual
URS (E							URS NX Wireline Co	

I							LOG OF BOI S0507	RING													
	Depth In feet	inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	Completion Date: 3/24/03 Casing Elevation: N/A Ground Elevation: 400.00 DESCRIPTION	NOTES												
ŀ				 		0 4 0	CONCRETE	CONCRETE	NOILS												
		48	42	31.2			FILL	White limestone gravel FILL Moist, black cinder FILL with white gravel													
	5	48	48	14.9															ML-CL	Stiff, moist, dark gray / black clayey SILT	
İ				11.9																	
							SM	Medium dense, moist, gray, fine grained silty SAND													
	10	48		8.6	Y		ML-CL	Medium stiff, moist, dark gray clayey SILT	1550 Sample S0507(10-12) for VOCs, SVOCs, metals, and PCB field test												
				29.0	0		Medium dense, moist, dark gray, fine grained silty SAND	Solvent odor from 11-16'													
	15	48		21.3			SM	Becomes poorly graded													
		_							End of Boring												
V.GDT 8/25/04	20																				
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04																					
31197	Com	pletion	Depth:		6.00 Ft.			Water Depth: N	/A ft., AfterATD hrs. ft., After hrs.												
, 2156	Project No.: Project Name:						rich Phase														
001	Drilling Contractor: Roberts Environmen							Water level afte	er drilling Geoprobe Macro Sampler												
'IRON	Drill	ing metl	nod:			Geo	probe	Hollow Stem Au	ger based on field visual												
S (ENV	Logged by: Eric Fritsch					ch		NX Wireline Con	re Barrel observations.												
띩								TID - At time of													

				LOG OF BOI S0508					
	Deptin in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	T					$\times\!\!\times\!\!\times$	FILL	Dry, gray gravel FILL with silt	NOTES
	_	48	34	17.9	V A			Medium stiff, gray sandy silty CLAY with gravel	
	5	48	33	. 18.5			CL-ML	Becomes soft Becomes wet Moist, brown, fine grained silty SAND	
				20.3				Moist, brown, fine gramed siny SAND	
1	10	- 48	48 39		SM	Becomes wet			
				14.3			CL-ML	Soft, wet, tan silty CLAY	
1	15	- 48	39	15.8			SM	Moist, gray, fine grained silty SAND	1430 Sample S0508(13-15) for VOCs, SVOCs, metals, and PCB field test
:									End of Boring
	20								
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04									
5 Cc		letion D			6.00 Ft.			Water Depth:N	I/A ft., After ATD hrs.
215 Pr	Project No.: 21561388.00000 Project Name: Krummrich Phase I								ft., After hrs.
o Pr							rich Phase nmental Dr	Water level after	er drilling
Ω Dr Dr		ng Conti ng metho		<u>k</u>			nmental Dr probe	3" Clear Acetate	Liner Unified Soil Classification
E Lo		ed by:		rge Jone				■ Hollow Stem Au NX Wireline Co	lger based on field visual re Barrel observations.
URS (I								URS I NX Wireline Co	

								LOG OF BORING S0509			
- 4000 - 1		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	SOSO	Completion Date: 3/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTIO	DNI	NOTES	
	<u> </u>				V		ASPHALT	ASPHALT White limestone gravel FILL	<u></u>	NOTES	
		48	36	0.4				Dark gray / black cinder FILL			
		40	30	3.3	A		FILL				
	5			2.5	V					1115 Samples S0509(3-5), S0509(3-5)MS, and S0509(3-5)MSD for VOCs, SVOCs, metals, and PCB	
		48	36	2.3	V			Stiff, moist, dark gray silty CLA	Y	field test	
	-			3.4	A		CL-MŁ				
					V		ML-CL	Soft, wet, dark gray clayey SILT	· · · · · · · · · · · · · · · · · · ·		
	0	48	48	6.4			WIL-CL				
				4.5				Wet, dark gray, fine grained silty	y SAND	·	
				1.5							
				3.7	V		SM				
		48	48		Y						
1	5			2.9			CL-ML	Stiff, moist, gray silty CLAY			
						<i>XX</i> X	CLINE			End of Boring	
	-										
2	0										
725/04											
/GDT 8	_				:						
RSSTLEY											
7.GPJ U					6.00 Ft.			•	W. D. I. N	/A ATTD	
2156112 St 156112	jec	letion D t No.:		2156138	8.00000			_	Water Depth:	/A ft., After ATD hrs. — ft., After hrs.	
Pro Dri	illin	g Conti	actor:		loberts	Enviro	rich Phase nmental Dr			cetate Liner Unified Soil Classification em Auger based on field visual	
=		g method d by:	od:	Eri	c Fritsc		probe	IIDC	Hollow Stem Au NX Wireline Co		
Logged by: Eric Fritsch URS ATD - A							ATD - At time of				

							DRING)																				
Depth in feet	inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES																			
	-					ASPHALT	ASPHALT	NOTES																			
_	48	36	7.5	V			Dry, brown silt FILL with gravel Stiff, moist, black silty clay FILL with gravel																				
	_		20.7	A		Fill	White gravel FILL with stiff, moist, gray silty clay																				
5			23.6	V		SM	Moist, gray, fine grained silty SAND																				
	48	1 22		V		CL-ML	Stiff to medium stiff, gray sandy silty CLAY																				
	1 40	33	26	A			Moist, gray, fine grained silty SAND	1600 Sample S0510(6-8) for VOCs, SVOCs, metals, and PCB field test																			
10	48	40	24	V		SM	Becomes wet and brown with some clay																				
	_	:	27.9	A			Medium stiff, moist, brown silty CLAY with some																				
			30.8	V		CL-ML	gravel																				
15	48	48	11	11			SM	Moist, dark brown, fine grained silty SAND Becomes light gray																			
										11	11																End of Boring
	_																										
20	-																										
-	-																										
Comp	letion D	enth:	1	 6.00 Ft.			Water Denth	N/A ft., After ATD hrs.																			
_	et No.:	-	2156138				Water Depth:	ft., After hrs.																			
Projec	ct Name	:]		rich Phase																					
Drilliı	Orilling Contractor: Orilling method: —				Geo	probe	3" Clear Aceta Hollow Stem A	tte Liner Unified Soil Classification Auger based on field visual																			
					_		URS NX Wireline C																				

							LOG OF BORING S0511		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
-	48	26	16.9	Y			Wet, dark brown, coarse gravel FILL with coarse grained sand Light brown, very coarse grained sand FILL Gravel and coarse grained sand FILL Dark brown sandy clayey silt FILL	NOTES	
	-		14.4						
5			15.5	V			Becomes moist to wet		
	48	27	21.3	Å		FILL	Black, coarse grained sand FILL Orange-brown sandy silt FILL		
			17.5	V			With black coarse sand Becomes moist with wood, brick, and black, coarse grained sand	1120 Sample S0511(8-10) for VOCs, SVOCs, metals, and PCB field test,	
10	48	32	16.5	Å			Black cinder FILL Concrete FILL		
	_		21.0	V			Dark brown sandy silty clay FILL Red brick FILL Black cinder FILL Gravel FILL Ped brick FILL with brown and weilt		
15	48	31	20.9	Å		SP	Red brick FILL with brown sandy silt Tan, fine to medium grained SAND		
								End of Boring	
	-								
20									
	_								
- 6	letion D	-		6.00 Ft.			Water Depth: N	ft., After ATD hrs.	
. B	ct No.: ct Name:		2156138			rich Phase	I		
Drilli	ng Contr	actor:	F	Roberts	Enviro	nmental Dr	→ 3 V-+11-Q-	Y	
Drillin Logge			rge Jone			probe went	Hollow Stem Au NX Wireline Co	based on field visual re Barrel observations.	
							ATD - At time of a	drilling	

			LOG OF BO S0601	LOG OF BORING S0601					
;	Depth In reet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/24/03 Casing Elevation: N/A Ground Elevation: N/A	
\vdash	T							DESCRIPTION Wet, white gravel FILL with gray clayey silt	NOTES
	-	48	24	815	V		FILL	Wet, brown / tan, well graded silty SAND	-
							SM		
	5	48	26	9999+	V				Solvent odor from 5.5-6'
		46	20		A			Medium stiff, moist, gray silty CLAY	Black staining from 4-8'
				9999+	V		CL-ML		
	10	48	48	1363	À			Moist, black, fine grained silty SAND	1000 Sample S0601(8-10), S0601(8-10)D, and S0601(8-10)EB for VOCs, SVOCs, metals, and PCB field test
		30	30		Y		SM		Odor
				615			CL-ML	Medium stiff, moist, gray silty CLAY	End of Boring
	15								End of Boring
1	20								
SDT 8/25/04		-							
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04									
77.GPJ		latin F	\	1	4.50 Ft.			Water Dental N	//A A AAa- ATD 1
51,581 F.C.	ojec	letion E t No.:		2156138	8.00000	1	-	Water Depth:	I/A ft., After ATD hrs. ft., After hrs.
Pr				n			rich Phase	■ Water 11 - Δ.	
Di Di	rillir	ng Cont ng meth ed by:	od: _	rge Jone		Geo	probe	3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification based on field visual
URS (I	•							URS NX Wireline Co	

							LOG OF BOI S0602	RING		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
	- 48	48	3.4				White limestone gravel FILL with clay Loose, moist, brown, fine grained silty sand FILL Dark gray / black cinder and gravel FILL	NOTES		
5	48	24	28.0			FILL		1115 Sample S0602(6-8) for VOCs, SVOCs, metals, and PCB field test Sight odor		
10	- 48	24	22.9			CL-ML	Soft, moist, dark gray silty CLAY	Slight odor		
15	48	24	7.9	X		SM	Medium dense, moist, dark gray silty SAND	End of Boring		
20 -										
SPJ URSSTLEV.GDT 8/25/04	-			5						
Proje Proje Drilli Drilli	ct Name ng Conti	:	2156138 R	I Roberts	Krumm Enviro Geo	rich Phase nmental Dr probe	Water Depth:	er drilling Liner unified Soil Classification based on field visual observations.		

ı								LOG OF BOI S0603	RING
	Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
		48	32	22.7	Y			Brown / gray gravel FILL with soft, wet, silty clay Becomes gray with dry silt Becomes gray / black with stiff, moist, brown silty clay Moist, black, fine grained sand and gravel FILL with	NOTES
	5			18.2	Ð		FILL	red gravel	
		48	24	15.8				·	1200 Sample S0603(6-8) for VOCs, SVOCs, metals, and PCB field test
	10	36	12	27	Y		CL-ML	Moist, white gravel and black sand FILL Soft, moist, brown sandy silty CLAY or clayey silty SAND	Refusal at 11'
	_								End of Boring
	15	_							
	-	-							
4	20	-							
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04		_							
97.GPJ UF	Comr	letion D	enth:	1.	1.00 Ft.			Water Denth: N	/A ft., After <u>ATD</u> hrs.
215611	Proje	ct No.:		2156138	8.00000		rich Phase	Water Depth:	ft., After hrs.
S (ENVIRON) LOG	Drilli Drilli		actor:	R rge Jones	oberts	Enviro Geo	nmental Dr probe	<u> </u>	r drilling Liner ger Geoprobe Macro Sampler Unified Soil Classification based on field visual observations.
ä							_	ATD - At time of the	arining

İ								LOG OF BORING \$0604				
	Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES			
		48	48	1.4	V		FiLL	White limestone gravel FILL Dark gray / black cinders, gravel, and glass FILL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
				4.9			CL-ML	Stiff, moist, brown, low plastic silty CLAY				
	5	48	42	4.8			SM	Moist, loose, brown silty SAND				
				4.1			CL-ML	Stiff, moist, brown silty CLAY Loose, moist, brown silty SAND				
	10	48	36	4.2	V		SM	Grades to very moist				
				4.3			SP	Medium dense moist, brown, fine grained, poorly graded SAND				
		- 48	42	4.3	Y	<i>333</i> 3	CL-ML	Stiff, moist, brown silty CLAY Medium dense, moist, brown, fine grained, poorly graded SAND				
	15			35.8			SP		1000 Sample S0604(14-16) and S0604(14-16)D for VOCs, SVOCs, metals, and PCB field test End of Boring			
	20											
3DT 8/25/04												
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04		-						-				
31197.C	_	letion D	_		6.00 Ft.				/A ft., After ATD hrs.			
3 2156	-	t No.: t Name:		2156138			rich Phase		_			
N) LOC	Project Name: Krummrich Phase I Drilling Contractor: Roberts Environmental Drilling I Drilling method: Geoprobe				Roberts	Enviro	nmental Dr					
NVIRO		-	od:		ic Fritse		probe	Hollow Stem Au	ger based on field visual			
URS (E	J.C -							URS I NX Wireline Con				

							LOG OF BOF S0605	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	46	1.0	V			Brown, sandy silt FILL with gravel Becomes dark brown Black cinder and coal FILL	NOTES
			3.8	A			Red brick FILL White, medium-sized gravel FILL Dark gray sandy silt FILL with cinders	
5	48	15				FILL	With red brick and no cinders Becomes coarse Becomes wet Wet, dark gray, plastic silty clay FILL	
			4.3					
10	48	48	1.2	V			Wet, black cinder FILL Wet, brown, plastic silty clay FILL Becomes soft Becomes hard and non-plastic	
			1.3				Wet, gray silty sand FILL Moist to wet, gray, medium grained sand FILL Wet, brown sandy silty clay FILL	
	48	41	0.1			SP	Very wet, black cinder FILL with brown sandy silty clay Wet, tan, medium grained SAND Becomes moist	1640 Sample S0605(13-15) for VOCs,
15			1.0					SVOCs, metals, and PCB field test End of Boring
								_
20								
.GDT 8/25/0.								
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04 Lind Coud Coud Coud Coud Coud Coud Coud Cou								
ල් Com	pletion I	Depth:	1	6.00 Ft.			Water Depth:N	/A ft., After ATD hrs.
Proj	ect No.:		2156138	8.00000)	-	Water Depth:	ft., After hrs.
Proj	ect Name	s:	-	Daker (rich Phase		
Dril Dril	ling Cont ling meth		<u> </u>			nmental Di probe	3" Clear Acetate	Liner Unified Soil Classification
Log	Logged by: George Jones/Jennifer Schwe						URS Hollow Stem Au NX Wireline Con ATD - At time of o	re Barrel observations.
URS							ATD - At time of o	drilling

								LOG OF BORING S0701				
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES			
		48	37	7.0 6.4			ASPHALT	ASPHALT Black gravel and cinder FILL White gravel FILL Black cinder FILL Hard, black / brown clay FILL with cinders				
	5	48	41	9.3	Y A		FILL	Moist, brown sandy silt FILL Black cinder FILL Dark gray silty sand FILL Black cinder FILL Hard, dark gray, low plastic silty clay FILL Becomes light brown	1415 Sample S0701(6-8) for VOCs, SVOCs, metals, and PCB field test			
	10	48	46	16.5	Y			Becomes soft Tan, fine grained silty sand FILL Black cinder FILL Brown silty clay FILL Black cinder FILL Tan, fine grained, poorly graded silty SAND Becomes moist to wet	SVOCs, metals, and PCB neid test			
	15	48		13.0			SM		Acetate liner in geoprobe sampler becomes stuck; only retrieved small portion of sample			
									End of Boring			
T 8/25/04	20											
_	_	letion D	-		6.00 Ft.				/A ft., After ATD hrs.			
2156	•	t No.:		2156138			rich Phase		ft., After hrs.			
100		t Name:					nmental Dr	₩ Water level afte	r drilling			
URS (ENVIRON)	Drillir		od:	rge Jone		Geo	probe	3" Clear Acetate Hollow Stem Au NX Wireline Con ATD - At time of c	ger based on field visual re Barrel observations.			

								LOG OF BO S0702	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	-	48	48	1.8	V		FILL	White limestone gravel FILL	INOTES
				177			ML	Silt, gravel, and cinder FILL Medium stiff, moist, brown clayey SILT Grades to reddish-brown	1335 Sample S0702(3-5) for VOCs,
	5	48	48	10.6				Medium dense, moist brown, fine grained silty SAND	SVOCs, metals, and PCB field test
				8.3					
	10	48	48	10.2			SM		
				12.3 8.1				Becomes gray and months graded	
	15	48		3.1				Becomes gray and poorly graded	
									End of Boring
							:		
ľ	20								
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04									
197.GPJ (Comp	letion D	epth.	16	6.00 Ft.			Water Denth	V/A ft., After ATD hrs.
215611 d	rojec	t No.:		21561388	8.00000		uiok Dk ·	Water Depth:	ft., After hrs.
P P				R			rich Phase imental Dr	Water level after	er drilling
T I	Drilling method: Logged by:						3" Clear Acetate	Iger hased on field visual	
URS (E								URS I NX Wireline Co	

							LOG OF BO S0703	
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
						ASPHALT	ASPHALT	110720
-	48	45	5.3	Y			White limestone gravel FILL Dark gray cinder and gravel FILL	
			3.9				Stiff, moist, brown, low plastic silty clay FILL	
5	48	48	4.8	V			Red brick FILL	1430 Sample S0703(5-7) for VOCs, SVOCs, metals, and PCB field test
			5.5			F# 1	Dry, brown to brownish yellow, cinder, gravel, and silt FILL	Staining at 6'
10	48	46	3.0			FILL	With and build	
			4.1	A			With red brick	
	48	20	1.7	V				
15			3.2					
								End of Boring
20								
EV.GDT 8/25/(
URS (ENVIRON) LOG 21651197.GPJ URSSTLEV.GDT 8/25/04 Logical Description of the control of the c								
Com	pletion D	_		6.00 Ft.			Water Depth:	N/A ft., After ATD hrs.
Proje	Project No.: 21561					rich Phase		ft., After hrs.
Drilli Drilli	Project Name: Drilling Contractor:R						illing Inc ▼ Water level after	er drilling Geoprobe Macro Sampler
Drilli	Drilling method: Geoprobe 3" Clear Acetate Geoprobe				e Liner Unified Soil Classification			
E Logg	ed by:							
URS (_					URS NX Wireline Co	drilling

								LOG OF BORING S0704				
Depth In feet	Inhes	Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/21/03 Casing Elevation: N/A Ground Elevation: N/A	NOTEC			
								DESCRIPTION White limestone gravel FILL	NOTES Black staining on ground surface			
:		18	24	1.5	Y			Dark gray to black cinder and gravel FILL	Diden staming on ground surface			
		·		1.0			FILL	With red brick				
5		18	36	1.0	Y		CL-ML	Stiff, moist, olive gray, low plastic silty CLAY				
				1.7			SM	Loose, moist, brown, fine grained silty SAND				
10		18	48	1.5	Y		ML	Soft, wet, brownish-yellow sandy SILT				
	Ц			22.9			CL-ML	Moist, brown silty CLAY				
					•			Light brown, fine grained, poorly sorted SAND Becomes gray				
45		18		561.0	X		sw		Staining Strong hydrocarbon odor 1005 Sample S0704(14-16) for VOCs, SVOCs, metals, and PCB field test			
15				1517	$oldsymbol{\Lambda}$			Becomes black	Heavily stained			
									End of Boring			
20		:										
Com Company Co												
E E												
Con	pletic		-	10 21561388	6.00 Ft.			Water Depth:	N/A ft., After <u>ATD</u> hrs. ft., After hrs.			
Proj	Project No.: Project Name:						rich Phase	I	time of drilling			
Dril	ling C	ontra	actor:	R	oberts	Enviro	nmental Di	— XXZ-411C				
Dril	ling m ged by		d:	Eri	c Fritsc		probe	Hollow Stem A	uger based on field visual			
URS (E)	gou by	,		Dit	11150	·-•		URS NX Wireline C				

							LOG OF BOF S0705	RING
Depth In feet	Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	Completion Date: 3/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	41				FILL	Wet gravel FILL with brown plastic sandy silt Red brick FILL White gravel FILL Dry, dark brown sandy silt FILL with gravel Dry, dark brown, non-plastic sandy silty clay FILL Dry, dark brown sandy silt FILL	1020 Sample S0705(2-4) for VOCs, SVOCs, metals, and PCB field test
5	48	35				SP	Black cinder FILL Brown, non-plastic silty clay FILL with cinders Tan SAND	
10-	48	48				CL-ML SM ML	Dark brown, non-plastic sandy silty CLAY Silty SAND Dark brown sandy SILT	
15	48	48				SM	Moist, tan, fine grained silty SAND Becomes brown Becomes tan Becomes more coarse and poorly graded	
20 -								End of Boring
Project Project Drillin	g Contr g metho	actor:	2156138	I Roberts	Krumm Enviro Geo	rich Phase nmental Dr probe vent	Water Depth: ✓ Water level at ti ✓ illing Inc ✓ Water level afte ✓ Hollow Stem Au	r drilling
	•					-	URS I NX Wireline Cor	

Drilling method: Geoprobe 3" Clear Acetate Liner Hollow Stem Auger Unified Soil Classification based on field visual								LOG OF BO S0706	
Moist, brown clayey sub Fill. with graved Post	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	uscs	Date: 3/25/03 Casing Elevation: N/A Ground Elevation: N/A	NOTES
Becomes soft and wet 7.0 50- 48 48 48 7.8 Most, gray / black, fine grained silty sand FILL Becomes medium stiff Black staining from 4-8' Black staining from 8-12' 10.9 10.9 Soft, moist, black silty clay FILL Black staining from 8-12' Soft, moist to wet silty clay FILL Black staining from 8-12' Soft, moist, black gray, fine to medium grained silty SAND CLAR Multiplicated silty SAND CLAR Moist, black silty CLAY Moist, black silty CLAY Moist, black fine grained silty SAND End of Boring Completion Depth: Soft, moist, black fine grained silty SAND End of Boring Water Depth: NA R., After ATD brs. Water Depth: NA R., After brs. Water Depth:			<u> </u>		V			Moist, brown clayey silt FILL with gravel	NOTES
FILL Soft, moist, black sity clay FILL Becomes medium stiff Moist, gray / black, fine grained silty sand FILL Becomes medium on stiff Black staining from 4-8' Black staining from 4-8' Black staining from 4-8' Black staining from 4-8' Black staining from 4-8' Black staining from 4-8' Black staining from 4-8' Black staining from 8-12' CL-94. Soft, moist, black gray fine to medium grained silty SAND CL-94. Soft, moist, black silty CLAY Moist, black / gray, fine to medium grained silty SAND 1625 Sample S0706(13-15) for VOCs, SVOCs, metals, and PCB field test Water Depth: Moist, black fine grained silty SAND End of Boring End of Boring Water Depth: Water Depth: Water Depth: Moist, After hbs. To water level at time of diriling Water Depth: To water level at time of diriling Water Depth: To water level at time of diriling Water level at time of dirilin		48	39	9.9	Y			Becomes soft and wet	
Becomes medium stiff Becomes medium stiff Becomes medium stiff Becomes medium coarse Soft, moist to wet sitly clay FILL Becomes medium coarse Soft, moist to wet sitly clay FILL Black staining from 8-12' Soft, moist, black sitly clay FILL Black staining from 8-12' Soft, moist, black sitly clay FILL Soft, moist, black sitly Clay Soft, moist, black sitly Clay Moist, black sitly Clay Soft, moist, black sitly Clay Soft, black sitly Clay Soft, moist, black sitly Clay Soft, black s				7.0					
Becomes medium still							FILL	Soft, moist, black silty clay FILL	Black staining from 4-8'
Moist, gray / black, fine grained silty sand FILL Becomes medium course Soft, moist to wet sity clay FILL Gray / brown gravel FILL SM Black, fine grained silty SAND CLAM. Soft, moist, to silty CLAY Moist, black / gray, fine to medium grained silty SAND CLAM. Soft, moist, black / gray, fine to medium grained silty SAND 1625 Sample S0706(13-15) for VOCs, metals, and PCB field test Mul. Moist, black SiLT M. Moist, black SiLT M. Moist, black, fine grained silty SAND End of Boring Water Depth: NA ft., After ATD hrs. Water Depth: A, After hrs. Value level at time of drilling The project None: The project Name: Krummrich Phase 1 The project None: Roberts Environmental Drilling Ine. Compiling Contracter: Roberts Environmental Drilling Ine. Compiling contracter: Geograbe Water Depth: NA ft., After ATD hrs. Water Depth: Geographe W	5	18	18	4.6				Becomes medium stiff	
Soft, moist to wet sitly clay FILL Soft, moist to wet sitly clay FILL		10	40	7.8					
Soft, fine grained sitly SAND CL-ML Soft, moist, tan sitly CLAY Moist, black / gray, fine to medium grained sitly AND CL-ML Soft, moist, tan sitly CLAY Moist, black / gray, fine to medium grained sitly AND CL-ML Soft, moist, black sitly CLAY Moist, black Sitly CLAY 1625 Sample S0706(13-15) for VOCs, SVOCs, metals, and PCB field test SM Moist, black Sitly CLAY Moist, black fine grained sitly SAND End of Boring End of Boring Water Depth: MA fi., After ATD hrs. Water Depth: After his. Water Depth: The fine depth in the fine depth in the fine depth in the first				10.9	V			Soft, moist to wet silty clay FILL	Black staining from 8-12'
Topict None: Soft Moist, black Silty CLAY 1625 Sample S0706(13-15) for VOCs, SVOCs, metals, and PCB field test	10	48	48	10.9	Y			Gray / brown gravel FILL Black, fine grained silty SAND	
A8 48 48 6.4 SM Moist, black SiLT 1625 Sample S0706(13-15) for VOCs, SVOCs, metals, and PCB field test	-			7.7				Moist, black / gray, fine to medium grained silty	
A8 48 6.4 SM Moist, black, fine grained silty SAND SM Moist, black, fine grained silty SAND End of Boring						CL-ML		1625 Sample S0706(13-15) for VOCs,	
End of Boring End of	-	48	48				ML	Moist, black SILT	SVOCs, metals, and PCB field test
Completion Depth: 16.00 Ft. Project No.: 21561388.00000 Project Name: Krummrich Phase I Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Water Depth: N/A ft., After ATD hrs. Water Depth: ft., After hrs. Water De	15			6.4			SM	Moist, black, fine grained silty SAND	
Completion Depth: 16.00 Ft. Project No.: 21561388.00000 Project Name: Krummrich Phase I Orilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Water Depth: N/A ft., After ATD hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water level at time of drilling Water level after drilling Silling Cooprobe Macro Sample 3" Clear Acetate Liner Unified Soil Classification based on field visual									End of Boring
Completion Depth: 16.00 Ft. Project No.: 21561388.00000 Project Name: Krummrich Phase I Orilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Water Depth: N/A ft., After ATD hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water level at time of drilling Water level after drilling Silling Cooprobe Macro Sample 3" Clear Acetate Liner Unified Soil Classification based on field visual									
Completion Depth: 16.00 Ft. Project No.: 21561388.00000 Project Name: Krummrich Phase I Orilling Contractor: Roberts Environmental Drilling Inc Orilling method: Geoprobe Water Depth: N/A ft., After ATD hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Level at time of drilling Water level after drilling Geoprobe Macro Sample 3" Clear Acetate Liner		_							
Project No.: 21561388.00000 Water Depth: ft., After hrs. Project Name: Krummrich Phase I Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Drilling method: Hollow Stem Auger Water Depth: ft., After hrs. Water level at time of drilling Water level after drilling Water level after drilling Water level after drilling Water level after drilling Water level after drilling Hollow Stem Auger Unified Soil Classification based on field visual	20	_							
Project No.: 21561388.00000 Water Depth: ft., After hrs. Project Name: Krummrich Phase I Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Drilling method: Hollow Stem Auger Water Depth: ft., After hrs. Water level at time of drilling Water level after drilling Water level after drilling Water level after drilling Water level after drilling Water level after drilling Hollow Stem Auger Unified Soil Classification based on field visual	-					!			
Project No.: 21561388.00000 Water Depth: ft., After hrs. Project Name: Krummrich Phase I Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Drilling method: Hollow Stem Auger Water Depth: ft., After hrs. Water level at time of drilling Water level after drilling Water level after drilling Water level after drilling Water level after drilling Water level after drilling Hollow Stem Auger Unified Soil Classification based on field visual	-								
Project No.:	+								
Project No.:									
Project Name: Krummrich Phase I □ Water level at time of drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Water level after drilling □ Hollow Stem Auger □ Unified Soil Classification based on field visual	Comp	letion D	epth:						
Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe ☐ 3" Clear Acetate Liner ☐ Hollow Stem Auger ☐ Unified Soil Classification based on field visual							rich Phase	I	time of drilling
Drilling method: Geoprobe Hollow Stem Auger based on field visual	Prillin	ng Conti	ractor:	<u>F</u>	Roberts	Enviro	nmental Di	water level aft ▼ Water level aft	- T !
TIRS II NX Wireline Core Barrel observations.		-					-	Hollow Stem A	uger based on field visual
A LIVE ALTHUC DI BRIDINS	.ogge	a by:	<u>Ge0</u>	rge Jone	ə/Juiilli	ici ociil	· ciit		

•							LOG OF BOI S0707	RING
Depth In feet	Inhes Driven	Inches Recovered	PiD (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/26/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
							Moist, gray silt FILL with gravel Moist, white gravel FILL with brown / gray clayey	NOTES
			7.1	V		FILL	silt Moist, black sand and gravel FILL	
	48	35		Å			Becomes reddish brown Stiff, moist, reddish brown silty CLAY	
			12.1	A				1000 Sample S0707(2-4), S0707(2-4)MS, and S0707(2-4)MSD
	1						Becomes hard and gray	for VOCs, SVOCs, metals, and PCB field test
5			11.7	V		CL-ML		
	48	27						
	-		8.0	A				
			7.5	V		GP	Red / black GRAVEL with sandstone	
10	48	48					Moist, tan, fine grained silty SAND	
			8.7	$oldsymbol{\Lambda}$		SM		
							Soft, gray / brown / red silty CLAY with gravel	
	-		9.3			CL-ML	Becomes moist to wet	
	48	48			<i>*/*/*/</i>		Wet, brown / gray, fine grained silty SAND	
15	-		12.1			SM		
								End of Boring
	_							
20								
-								
-								·
	oletion D	-	10 2156138	6.00 Ft.			Water Depth: N	/A ft., After <u>ATD</u> hrs. ft., After hrs.
Projec	ct No.: ct Name:			ŀ	Krumm	rich Phase	<u>V</u> Water level at ti	ime of drilling
	ng Contr ng metho	od:			Geo	probe	illing Inc Water level afte 3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification
Logge	ed by:	_Geo	rge Jones	s/Jennif	er Schv	vent	URS I NX Wireline Con	re Barrel observations.
						· · · · · · · · · · · · · · · · · · ·		

	t d							LOG OF BORING S0708			
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	N.	NOTES	
r	T						CONCRETE	CONCRETE White gravel FILL		NOTES	
		48	33	9.1	V		FILL	Brown sandy silt FILL with grave	l and red brick		
				13.0		XXXX		Moist, tan SAND			
	5-	-		11.5	V		SP	Becomes poorly graded		1525 Sample S0708(4-6) for VOCs, SVOCs, metals, and PCB field test	
		48	31	11.9	À			Wet silty SAND			
	10	48	30	11.5	V			With gravel			
				11.3			SM	Becomes coarse			
		48	36	14.9	V			Becomes clayey Becomes fine grained			
	15			9.2						End of Boring	
	-	_									
	20										
25/04											
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04											
PJ URS											
1197.6	Completion Project No Project Na				6.00 Ft		-	· · · · · · · · · · · · · · · · · · ·	Water Depth: N	ft., After ATD hrs.	
2156				2156138			rich Phase	I			
I N	rilli	ng Cont	ractor:	F	Roberts	Enviro	nmental Dr		▼ Water level after 3" Clear Acetate	T	
RS (ENVIRO)	Drilling method:						_	URS	Liner Unified Soil Classification ager based on field visual re Barrel observations.		
⊃ L								<u> </u>			

	_							LOG OF BORING S0709			
4 - 1 - 1 - 1 - 1	Deptin in reet	Inhes Driven	Inches Recovered	PiD (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/20/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
		48	41	4.9	Y		CONCRETE FILL	CONCRETE Gravel, (FILL) Becomes black	Notes		
				1.2	A		CL-ML	Dry, black, non-plastic sandy silty CLAY with gravel	1450 Sample S0709(2-4) for VOCs, SVOCs, metals, and PCB field test		
	5	48	34	0.9	Y			Stiff, moist, dark gray CLAY Becomes silty and non-plastic Becomes soft			
				3.5							
	10	48	48	2.1	V		CL	Becomes wet Becomes sandy			
				3.0			<u>-</u>	Becomes stiff Becomes plastic			
		48	32	3.5	Y			Becomes black with gravel Becomes silty			
	15			2.0				Becomes light brown	End of Boring		
	20 —										
8/25/04											
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04			:								
PPJ UF											
261 Pr Pr	ompl ojec	letion D t No.:	epth:	<u>1</u> 2156138	6.00 Ft. 8.00000			Water Depth:	/A ft., AfterATD hrs. ft., After hrs.		
Pr	ojec	t Name	:		1	Krumm	rich Phase nmental Dr	rilling Inc. Water level afte	r drilling		
S (ENVIRON)	Drilling method:		/T 'C C 1 4			3" Clear Acetate Hollow Stem Au NX Wireline Con ATD - At time of o	Liner Unified Soil Classification ger based on field visual observations.				
5 [-		

ı								LOG OF BORING S0710		
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
ı							ASPHALT	ASPHALT	Notice	
	-	48	48	9.7	Y		FILL	White limestone gravel FILL Stiff, moist, brown / brownish yellow, mottled, low plastic silty CLAY		
				13.5					·	
	5	48	48	18	V		CL-ML	Grades to olive gray		
				3543			,	Becomes soft and very moist	Solvent odor at 7'	
	4.5		40	2337	V			Soft, moist, brown to gray clayey SILT	Strong solvent odor	
	10	48	48	9999	À					
	15	48					ML-CL		1530 Sample S0710(13-15) for VOCs, SVOCs, metals, and PCB field test	
									End of Boring	
8/25/04	20	-								
URS (ENVIRON) LOG 21561197 GPJ URSSTLEV.GDT 8/25/04										
1197.	Com	pletion I	epth:		6.00 Ft.				ft., After ATD hrs.	
, 2156				2156138			rich Phase		ft., After hrs. ime of drilling	
J) LOG	Drilli	ng Cont	ractor:		Roberts	Enviro	nmental Dr	illing Inc Water level after 3" Clear Acetate	er drilling Geoprobe Macro Sampler	
VIRON	Drilli	ng meth				Geo	probe	Hollow Stem Au	lger based on field visual	
URS (EN	Lugg	ca by:			- 1 H3C		·	URS NX Wireline Co		
_						_				

							LOG OF BO S0711			
Depth In feet	Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/20/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
	48	28	0	V		ASPHALT	ASPHALT Black, medium sized gravel FILL White, large sized gravel FILL			
			2.0							
5	48	31	0.8	V			Dark brown cinder and fine gravel FILL			
			96			FILL	Dark brown sandy clayey silt FILL with fine gravel			
10	48	41	4.0				White, large sized gravel FILL			
	40	41	200	A			Dark gray sandy silt FILL	Solvent odor		
	40	25	305	V			White, large sized gravel FILL Dark gray sandy SILT	1550 Sample S0711(12-14) for VOCs, SVOCs, metals, and PCB field test Faint solvent odor		
15	48	37	245	A		ML	Becomes black Becomes moist to wet and dark gray			
	-							End of Boring		
20										
			1	(00 E	1			N/A O AC ATD		
Projec	letion D et No.:		2156138				Water Depth:	N/A ft., After ATD hrs. ft., After hrs.		
			R			rich Phase nmental Dr	illing Inc ▼ Water level af	ter drilling		
4	ng metho	od:	rge Jones		Geo	probe	3" Clear Aceta	Auger based on field visual		
	observations. ATD - At time of drilling									

							LOG OF BORING S0712		
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/18/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
	48	48	2.4	V		FILL	Gravel FILL with soft, moist, tan silty clay	NOTES	
			1.9				Stiff, moist, black silty CLAY	1415 Sample S0712(3-5) for VOCs, SVOCs, metals, and PCB field test.	
5			2.4	V		CL-ML			
	48	48	2.5			SM ML-CL	Moist, tan, fine grained silty SAND Soft, moist, tan / gray silty CLAY or clayey SILT		
			2.3	7		SM ML-CL	Moist, tan / gray, fine grained silty SAND		
10	48	41	2.9	X		WIL-OL	Soft, gray / tan clayey SILT Moist, gray, fine to medium grained SAND		
	-		4.5	•		SM		Odor	
15	48	41	6.4			CL-ML	Stiff, dry, gray silty CLAY Moist, gray, fine grained SAND	Cuti	
			0.4			SP	Moist, gray, the grained SAND	End of Boring	
							,		
20	-								
-	_				-				
Comp	letion D	enth.	1	6.00 Ft.			Water Depth: N	/A ft., After ATD hrs.	
Projec	t No.:		2156138	8.00000)	-	Water Depth:	ft., After hrs.	
						rich Phase	- 17.4 1 1 0		
	ng meth	od:	rge Jone		Geo	nmental Di probe went	3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification ger based on field visual	
39	•						URS NX Wireline Con		

						-	LOG OF BO S0713	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/18/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	20	6.3	V		FILL	White limestone gravel FILL	
			8.1				With clay	
5	48	46	17.3	V		CL-ML	Stiff, moist, gray, low plasticity silty CLAY	
			35.7				Loose, moist, gray to dark gray, fine grained, poorly graded silty SAND	1350 ample S0713(6-8) for VOCs, SVOCs, metals, and PCB field test
10	48	18	13.0			SM	With clay	
15			29.1	V				
	-		33.7					End of Boring
20	-							
	-							
	<u> </u>	<u> </u>		C 00 Er			W (D ()	N/A ft., After ATD hrs.
	oletion D et No.:	_	2156138	6.00 Ft 8.00000		-	Water Depth: Water Depth:	N/A ft., After <u>ATD</u> hrs. ft., After hrs.
Projec	ct Name	:			Krumm	rich Phase	<u>I</u>	time of drilling
						nmental D	3" Clear Acetate	Liner Unified Soil Classification
•		od:	Er	ic Frits		pprobe	Hollow Stem A NX Wireline Co	uger based on field visual
							URS NX Wireline Co	

	ŧ							LOG OF BOI S0801	RING
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/18/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
							ASPHALT	ASPHALT	NOTES
		48	36	5.8				White limestone gravel FILL	
				7.5			FILL	Silty clay FILL with cinders Cinder, gravel, and red brick FILL	
	5			29.8	V		CL	Soft, moist, yellow / brownish yellow / gray / greenish gray CLAY	1530 Sample S0801(4-6) for VOCs, SVOCs, metals, and PCB field test
		48	40	18.9	Å			Stiff, moist, dark gray / olive gray, low plasticity silty CLAY	
	10	48	46	9.5	V		CL-ML		
	-			7.6					
ē.	-	48	46	8.7	Y			Dense, dark gray / black silty SAND	
	15			50			SM	Dense, dark gray / black sitty GAND	1540 Sample S0801(14-16) for VOCs, SVOCs, metals, and PCB field test End of Boring
	20	-							
URS (ENVIRON) LOG 21561197. GPJ URSSTLEV.GDT 8/25/04									
C 24	omp	oletion D	epth: _		6.00 Ft.			Water Depth:N	I/A ft., After ATD hrs.
2156 J	roje	ct No.:		2156138	8.00000		rich Phase		ft., After hrs.
	roje Irilli	ct Name	: ractor:	F	Roberts			Water level after	er drilling
T T	Drilling method:		Roberts Environmental Drillin Geoprobe Eric Fritsch					iger hased on field visual	
URS (E.	ogged by:			151				URS NX Wireline Co	

							S0802	RING		
Depth In feet	Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/18/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
							Dry, tan gravel FILL with silt	140120		
	48	43	0	V			Soft, black cinder and gray gravel FILL with silty clay			
			20.3				Becomes wet	1530 Sample S0802(2-4) and S0802(2-4)D for VOCs, SVOCs, metals, and PCB field test		
5	5 - 48 26	26	18.1	V			Gray gravel FILL with silt Moist, black / brown / red cinders and gravel FILL			
			8.2	A		FILL		"Sweet" odor		
							Wet, gray gravel FILL with soft silty clay			
10	48	34	6.5	V			Wet, red / black / brown cinder FILL Medium stiff, moist, gray silty clay FILL			
			0				Moist, gray, fine grained silty sand FILL			
			0						Wet, black cinder FILL	
	48	40			ML-CL	Moist, gray / tan clayey SILT Medium soft, wet, gray silty CLAY	-			
15	_		0			CL-ML				
						SM	Moist to wet, tan, fine grained silty SAND			
								End of Boring		
20					,					
10000										
Com	pletion D			6.00 Ft		_		N/A ft., After ATD hrs.		
	ect No.:		2156138			- irich <u>Phase</u>	- W	ft., After hrs.		
	ct Name ing Cont					nmental D	rilling Inc. Water level after	er drilling		
Drill	ing meth	od: _			Geo	probe	Hollow Stem A	uger based on field visual		
Logg	Logged by: George Jones/Jennifer Schwent URS NX Wireline Core Barrel observations. ATD - At time of drilling									

							LOG OF BOI S0803			
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/18/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
						FILL	Wet. gray gravel FILL	NOTES		
			0	V			Hard, dry, brown clayey SILT			
	48	35		X			Becomes dry to moist and gray	1620 Sample S0803(1-3) for VOCs, SVOCs, metals, and PCB field test		
			0					5 v 5 cs, metals, and 1 cb field test		
5	-		0	V		ML				
	48	36		X			Becomes soft			
]		0				Becomes wet			
							With gravel			
	-		0	V			Medium stiff, moist, brown / gray silty CLAY			
10	48	31		X						
			0			CL-ML				
							Becomes gray with gravel			
	<u> </u> 		0	V			Becomes medium stiff			
	48	33		X			Moist, gray sandy SILT			
15	_		0			ML				
								End of Boring		
-										
1										
20	_									
4	<u>.</u>									
1 8/25/										
LEV.GD										
J URSS										
URS (ENVIRON) LOG 21651197 GPJ URSSTLEV GDT 8/25/04 Log Comp Log	letion D	epth:		6.00 Ft.			Water Depth:N	//A ft., After <u>ATD</u> hrs.		
Project	ct No.:	:	2156138			rich Phase	ĭ			
Drilli	ng Cont	ractor:	F	Roberts	Enviro	nmental Di	rilling Inc Water level after "I 3" Clear Acetate	Liner Unified Soil Classification		
Logge	Drilling method: Geoprobe Logged by: George Jones/Jennifer Schwent						Hollow Stem Au NX Wireline Co ATD - At time of	ger based on field visual re Barrel observations.		
URS							ATD - At time of	drilling 		

							LOG OF BO S0901	RING	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/19/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
			0.0	V			Moist, gray gravel FILL with silt Dry, black cinder FILL with gray sand	NOTES	
	48	27	0.0	Å			Medium stiff, gray / tan silty clay FILL with gravel	1110 Sample S0901(1-3) for VOCs, SVOCs, metals, and PCB field test	
5	40	20	0.0	V		FILL	Wet, white gravel FILL		
	48	38	0.0	A			Wet, black cinder FILL		
10-	- 48	48	0.0	V			Wet, gray gravel FILL Stiff, moist, greenish gray silty CLAY		
	-	70	0.0			CL-ML			
	30		0.0	X		ML-CL	Hard, moist clayey SILT		
15					(3(3(3)			End of Boring	
20									
07 8/25/04									
J URSSTLEV.GL	 						·		
Proje Proje Drilli Drilli	pletion D ct No.: ct Name ng Contr ng metho ed by:	actor:	2156138	I Roberts	Krumm Enviro Geo	rich Phase nmental Dr probe vent	Water Depth: ✓ Water level at t	er drilling Liner Liner uger uger based on field visual observations.	

							LOG OF BO S0902	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/19/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
				V	, b. ¢.,	ASPHALT CONCRETE	ASPHALT CONCRETE	
	48	24	10.3				White limestone gravel FILL	
	48	24						
			32.3			FILL		
5							Dark gray cinder, gravel and coal FILL	
	48	24	32					
	46	24	(7.5				Grades to cinder FILL	
			67.5				Stiff, moist, brown silty CLAY with green mottles	
			190	V				
10	48	48	190	V		CL-ML		1145 Sample S0902(9-11) for VOCs, SVOCs, metals, and PCB field test
			790				Becomes soft and low plastic	
			,,,,					Possible odor in silt
				V		sc	Becomes stiff and gray Moist, brown clayey SAND	1 ossiole odol ili sin
-	- 48	48		Y			Stiff, brown / gray, mottled, low plastic silty CLAY	
15	_					CL-ML		
-							With silt Yellowish red hematite with staining	End of Boring
-								
	-							
-								
20	-							
						:		
	_							
	 - 							
-								
Comp	letion D			6.00 Ft.			Water Depth:	N/A ft., After ATD hrs.
	ct No.: ct Name		2156138			rich Phase	I	
Drilli	ng Conti	ractor:		Roberts	Enviro		water level af ■ 3" Clear Acetat	te Liner Unified Soil Classification
	ng meuno ed by:			ic Frits			TIRS Hollow Stem A NX Wireline C ATD - At time of	based on field visual observations.
							ATD - At time of	i arining

							LOG OF BOI S0903	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/17/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	42	3.9	V		FILL	White limestone gravel FILL	NOTES
	-	•	2.6	A			Silty gravel, cinder, and coal FILL	
5	48	48	1.6	Y			Stiff, olive gray silty CLAY with trace fine gravel	
	_		3.9	A				
10	48	30	5.3	V		CL-ML	Grades to soft and moist	
_	-	30	6.8			GE-IIIE	Grades to stiff	1335 Sample S0903(10-12) for VOCs, SVOCs, metals, and PCB field test
	- 48		2.9	V				
15			0.7					End of Boring
_	-							
20	-						·	
Comp Projec Projec Drilli Drilli Logge		!						
Comp	oletion D		1 2156138	6.00 Ft.		_	Water Depth:	
Projec		:]	Krumm	rich Phase	I	ime of drilling
Drilli Drilli Logge	ng meth				Geo	nmental Di probe	3" Clear Acetate Hollow Stem At NX Wireline Co	E Liner Unified Soil Classification ager based on field visual observations.
							ATD - At time of	drilling

						LOG OF BORING S0904				
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/19/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
						ASPHALT	ASPHALT	Notes		
-	48	25	0.0	Y			Gray gravel and silt FILL Stiff, moist, dark brown sandy silty clay FILL			
-			0.0				Becomes soft with no sand			
5		28	0.0	0.0						
			0.7			FILL	Becomes stiff and gray with black cinders and red brick	1005 Sample S0904(6-8) and S0904(6-8)EB for VOCs, SVOCs, metals, and PCB field test		
10-	48	28	4.5	V			Becomes soft, moist, and tan with cinders and no red brick	,		
	40	20	6.3				Becomes wet and gray			
			11.9	V			Dark gray gravel FILL with very soft, wet silty clay Gray sandy SILT			
15	48	48				ML	Wet, gray sandy silty CLAY			
			8.4			CL-ML SM	Wet, gray silty SAND	Headspace readings potentially elevated due to moisture End of Boring		
20-										
Comp Projec Projec Drillii Drillii Logge								·		
Comp	letion E		1 2156138	6.00 Ft.		-	Water Depth:N	/A ft., After <u>ATD</u> hrs. ft., After hrs.		
Projec	et No.: et Name		2156138			rich Phase				
Drilli Drilli Drilli Logge	ng Cont	ractor: od:		Roberts	Enviro Geo	nmental Dr probe	water level after illing Inc 3" Clear Acetate Hollow Stem Au	r drilling		
LUES	ou oy.		.a			 	URS NX Wireline Co			

							LOG OF BORING S0905			
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/19/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
	48	36	12.1				Gray gravel FILL with silt Soft, moist, brown silty clay FILL with gravel Gray gravel FILL with silt Becomes moist with black / red cinders Becomes wet	1345 Sample S0905(1-3) for VOCs, SVOCs, metals, and PCB field test		
5	48	38	7.8	V		FILL		Slight odor		
			9.9				Stiff, moist, gray silty clay FILL	Ç		
10	48	48	7.9	V			Wet, black / gray cinder and gravel FILL with some clay Medium stiff, wet to moist, gray / brown silty CLAY			
			9.6			ML-CL				
-	48	28	5.4	V		CL	Soft, wet, gray CLAY			
15			12.3			SP	Becomes gray/tan Moist, brown / tan, fine grained SAND	E. J. Ch. iv		
					:			End of Boring		
20										
_										
Proje Proje Drill Drill	pletion I ect No.: ect Name ing Cont ing meth ged by:	ractor:	2156138	Roberts) Krumn Enviro Geo	urich Phase onmental D oprobe went	Water Depth: Water level at ti Water level at ti Water level after Water level at ti Water level at ti Water level at ti Water level at ti NX Wireline Con	r drilling Liner ger Geoprobe Macro Sampler Unified Soil Classification based on field visual observations.		
<u> </u>							ATD - At time of a	arning		

							LOG OF BO S0906	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/17/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	32	3.0	V			White limestone gravel FILL	No.EO
	10	32	12.0					1250 Sample S0906(2-4) for VOCs, SVOCs, metals, and PCB field test
5	48		2.9			FILL	Moist, dark brown to black silt, sand, and cinder FILL with trace gravel	
			4.5					Slight "sweet" odor Perched water from 8-12'
10	48		3.2	V			With medium to coarse grained gravel	refered water from 6-12
			5.6				Stiff, moist, gray silty CLAY with trace fine gravel	
	48		3.5	V		CL-ML		
15			4.2					End of Boring
20								
	-							
								ATD ATD
Comp Project	oletion D ct No.:		2156138		0	- -	Water Depth:	N/A ft., After ATD hrs. ft., After hrs.
Projec Drilli				•		nrich Phase Inmental D	₩ W-411-A	ter drilling Geoprobe Macro Sampler
Drilli					Geo	oprobe	Hollow Stem A	uger based on field visual observations.
							ATD - At time of	f drilling

								LOG OF BOR S0907	RING
Depth in feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/17/03 Casing Elevation: N/A Ground Elevation: N/A	NOTES
	Τ			 				DESCRIPTION Gray fine gravel FILL	NOTES
	-	48	30	7.1					
				11.3	4			Moist, black / brown cinder FILL with some fine grained sand	
	5	48	21	6.4			FILL	With red brick Becomes wet	
							1 Hate		
10		48	33	15.3	V				
		-		16.2				Medium soft, moist, gray silty clay FILL with black staining	
		48	38	14.4	V		_	Stiff, wet, gray clay FILL with red brick Stiff, moist, gray silty CLAY	Hydrocarbon odor
1!	5			17.0			CL		1300 Sample S0907(13-15) for VOCs, SVOCs, metals, and PCB field test
	_								End of Boring
20	0								
Coo Pro Pro Dri Dri Log									
Con		letion D t No.:		2156138	6.00 Ft. 8.00000			Water Depth: <u>N</u> Water Depth:	/A ft., After <u>ATD</u> hrs. ft., After hrs.
Pro	-			2130130			rich Phase	I	me of drilling
Dri	llir	ng Conti	ractor:	F	Roberts	Enviro	nmental Dr		· · · · · · · · · · · · · · · · · · ·
Dri Log		ng method d by:		rge Jone				Hollow Stem Au NX Wireline Col ATD - At time of o	ger based on field visual re Barrel observations.
								AID - At time of the	uning

							LOG OF BOI S0908	RING
Depth In feet	Inhes Driven	Inches Recovered	PiD (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/18/03 Casing Elevation: N/A Ground Elevation: N/A	
	 	 	 				DESCRIPTION Dry, gray gravel FILL with silt	NOTES
 -	48	31	7.2	V			Moist, black / brown cinder and sand FILL with clay	
-			13.0				Medium stiff, black / gray silty clay FILL	
5			22.6	V			Medium stiff, dry, black / red cinder FILL with clay Stiff, dry, gray silty clay FILL with white gravel	
-	48	48					Becomes dry to moist and gray / tan / black	
			25.8			FILL	Dry to moist, tan, fine grained sand FILL with some silt	0935 Sample S0908(6-8) for VOCs, SVOCs, metals, and PCB field test
			18.3	V			Stiff, moist, brown / black silty clay FILL	
10	48	48					Becomes tan	
			10.7				Moist, tan, fine grained silty sand FILL	
			7.1	V			West David of the s	
	48	39				CL-ML	With black cinders Medium stiff, moist, tan Silty CLAY	-
15			9.1			SM	Moist, tan, fine grained SAND	
								End of Boring
20								
					:			
_								
Com	pletion I			6.00 Ft.		-		V/A ft., After ATD hrs.
Proje	ct No.:		2156138			rich Phase		ft., After hrs.
Proje Drilli	ct Name					rich Phase nmental Di	illing Inc. ▼ Water level after	er drilling
Drilli	ing meth ed by:	od:	rge Jone		Geo	probe	3" Clear Acetate M Hollow Stem Au I NX Wireline Co	lger based on field visual observations.
							ATD - At time of	drilling

	t							LOG OF BO S1001	RING
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/18/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
		- 48	33	0.5	Y			Dry, gray, coarse gravel and silt FILL	NOTES
				0.4				Moist, black cinder FILL with few gravel	1105 Sample S1001(2-4) for VOCs, SVOCs, metals, and PCB field test
	5	48	24	2.7			FILL	Becomes wet with no gravel Wet, red brick FILL Wet, black cinder FILL	
				1.3				Becomes yellow orange	
	10	48	35	1.6	V			Wet, gray / black gravel FILL with red brick Stiff, moist, gray silty CLAY	
		-		1.3			CL-ML		
	15	48	48	0.5	Y		SM	Wet, gray / orange / tan, fine grained silty SAND	
				1.4					End of Boring
	20								
/.GDT 8/25/04									
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04									
61197.	Completion Depth: 16.00 Ft. Project No.: 21561388.00000								N/A ft., After <u>ATD</u> hrs. ft., After hrs.
G 215	Proje	ct Name:			ŀ	Krumm	rich Phase	y Water level at t	time of drilling
(ENVIRON) LO	Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Logged by: George Jones/Jennifer Schwent WIRS						probe		E Liner Unified Soil Classification based on field visual observations.
ES ATD									drilling

							LOG OF BO S1002		
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/18/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
							White limestone gravel FILL	NOTES	
-	48	48	17.4 32/29.9			FILL	Stiff, moist, brown silty clay FILL	Hydrocarbon sheen on cinders and soil	
							With cinders and gravel	1115 Sample S1002(3-5) for VOCs, SVOCs, metals, and PCB field test	
5	48	40	14.9	V			Stiff, moist, olive gray, low plastic silty CLAY	Perched water	
-			28.9	A		CL-ML			
			41.5	V					
10	48	48		I A		ML	Soft, moist, dark brown SILT		
			7.5	4			Moist, brown, fine grained silty SAND		
15	48	18	5.7			SM			
								End of Boring	
20									
Com Proje Proje Drill Drill Logg									
25									
Com	pletion I ect No.:		1 2156138	6.00 Ft. 8.00000		-		N/A ft., After <u>ATD</u> hrs. ft., After hrs.	
Proje	ect Name	:]	Krumm	rich Phase	<u>V</u> Water level at	time of drilling	
Drill Drill Logg	Drilling Contractor: Roberts Envi Drilling method: Contractor Cont			Geo	nmental Di probe	3" Clear Acetat Hollow Stem A	■ 3" Clear Acetate Liner Unified Soil Classification based on field visual observations. Unified Soil Classification based on field visual observations.		
8							URS NX Wireline C	f drilling	

								LOG OF BOI S1003	RING
Denth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/18/03 Casing Elevation: N/A Ground Elevation: N/A	
\vdash	\dashv					$\times\!\!\times\!\!\times$		DESCRIPTION White limestone gravel FILL	NOTES
		48	40	20.9	V			Cinder, gravel, and silt FILL	
				14.7	A		FILL	Dark gray, silty sand FILL with gravel	
į,	5	48	48	64.3				Gravel, coal, cinder, silt, and sand FILL	0930 Sample S1003(5-7) for VOCs, SVOCs, metals, and PCB field test Hydrocarbon odor
				58.6	A			Stiff, moist, dark gray, low plastic silty CLAY	_
10	0-	48	48	12.8				•	
				25.4			CL-ML	Grades to gray with brownish yellow mottles	
	-	48	48	99.3	Y				0945 Sample S1003(12-14) for VOCs, SVOCs, metals, and PCB field test
1	5			73.5			ML	Stiff, moist sandy SILT grading with clay	
				:					End of Boring
2	0								
8/25/04									
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04 or d									
GP.			<u>.</u>						
761197 Co.			epth:	1 2156138	6.00 Ft. 8 00000				MA ft., After ATD hrs. ft., After hrs.
Dro V		t No.: t Name		2130138			rich Phase		ime of drilling
Dri						Enviro	nmental Dr	_ ***	er drilling
Dri	Drilling Contractor: Roberts Environmenta Drilling method: Geoprobe				probe	Hollow Stem Au	lger based on field visual		
S EN	Logged by: Eric Fritsch				C F FITSC	al		URS NX Wireline Co	
5┗									

							LOG OF BOF S1004	RING
Depth In feet	Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/17/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
				V			Dry, gray gravel and sil FILL	NOTES
	48	39	7.5	V			Dry, Black cinders and brown gravel FILL	
			13.5			FILL	Dry to moist, tan clayey silt FILL	
							Medium stiff, moist, gray silty clay FILL with large white gravel	
5			11.6	V			Moist, brown clayey silt FILL Moist, black / brown cinder FILL with some silt Medium stiff, moist, gray silty CLAY	
-	48	40					, , , , , , , , , , , , , , , , , , , ,	
			33.6					Slight odor 1445 Sample S1004(6-8) for VOCs,
			23.5	V				SVOCs, metals, and PCB field test
10-	48	30	25.0	Y		CL-ML		
			22.1	A			Becomes stiff	
		:		•				
	48	38	14.7				Becomes wet with gravel	
15	- 40	30	13.9			ML-CL	Moist to wet, gray sandy clayey SILT	
						ME-CE		End of Boring
20-							·	
	_	<u>.</u> :						
	-							
Comp Projec Projec Drilli Drilli Logge	-							
Comp	letion D ct No.:		1 2156138	6.00 Ft. 8.00000		-	Water Depth:N Water Depth:N	/A ft., After <u>ATD</u> hrs. ft., After hrs.
Project	ct Name			1	Krumm	rich Phase	I	me of drilling Geoprobe Macro Sampler
Drilli:		od:	rge Jone		Geo	probe	3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification ger based on field visual
2088					_ ====	····	URS ATD - At time of c	

								LOG OF BO S1101	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/14/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
		- 48	37	0.0	V		FILL	Soft, moist, tan, soft silty sandy clay FILL Stiff, dry, brown silty clay FILL Black cinder FILL	NOTES
		40	37	0.0				Stiff, dry, brown silty CLAY Becomes moist	
	5	- 48	48	0.0	V				
	-			0.0					
	10	- 48	48	0.0	V		CL-ML	Becomes gray / tan	
				0.2				Becomes wet and brown / gray	0920 Sample S1101(10-12) for VOCs, SVOCs, metals, and PCB field test
		48	48	1.7				Becomes stiff and moist	
	15			0.0					End of Boring
	-	_							
	20								,
3DT 8/25/04									
PJ URSSTLEV.C		-					!		
1561197.G		letion D		16 21561388	6.00 Ft. 8.00000			Water Depth:	N/A ft., After <u>ATD</u> hrs. ft., After hrs.
IRON) LOG 21	Projec Prillii Prillii	ot Name: ng Contr ng metho	actor:		koberts l	Krummi Enviror Geo	rich Phase nmental Dr probe vent	<u>V</u> Water level at t	time of drilling er drilling e Liner uger uger Unified Soil Classification based on field visual observations.

							LOG OF BOF S1102	RING
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	Completion Date: 3/14/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
-	48	42	2.5			FILL	Light gray, coal and limestone gravel FILL With coal and cinders Stiff, moist, brownish yellow, low plastic silty CLAY	
5	48	48	3.8				Grades with silt Stiff, moist, olive gray, low plastic silty CLAY	
10	48	48	2.8			CL-ML		
15	- 48	48	2.9				Grades to greenish gray	0930 Sample S1102(13-15) for VOCs, SVOCs, metals, and PCB field test
20	-							End of Boring
100.000 0100.0000.000 0100.000	-							
Project Project Drilling Drilling	ng metho	actor:	2156138 F	I Roberts	Krumm Enviro Geo	rich Phase nmental Dr probe		me of drilling r drilling I Geoprobe Macro Sampler Liner Unified Soil Classification based on field visual observations.

							LOG OF BOI S1103	RING
Depth In feet	inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/14/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	<u> </u>	<u> </u>					Black cinder FILL	Ground surface is wet
	48	48	0.7	V			Medium stiff, dry to moist, tan / brown, mottled silty clay FILL with white limestone gravel	
-			0.1				Becomes brown / gray Becomes soft and moist with sand	
5			2.3	V		FILL	Becomes moist to wet and tan / brown	
-	48	38	3.4				Becomes stiff	
							Soft, moist, tanish brown silty clay FILL with black cinders	
10	48	48	0.7				Medium stiff, gray / tan mottled silty CLAY	
_			2.6					
_			0.0	V		CL-ML		
15	48	48	0.0					1000 Samples S1103(13-15), S1103(13-15)MS, and S1103(13-15)MSD for VOCs, SVOCs, metals, and PCB field test
					//X/X/X/ 			End of Boring
20								·
Comp Proje Proje Drilli Drilli Logg	-							
Comp	oletion D			6.00 Ft.			Water Depth:N	/A ft., After ATD hrs.
Proje	ct No.:		2156138			rich Phase		ft., After hrs.
Drilli Drilli	ng Cont	ractor:		loberts	Enviror	ımental Dr		r drilling
Drilli Logg	ng methe ed by:		rge Jones			probe vent	Hollow Stem Au NX Wireline Cor	ger based on field visual re Barrel observations.
							ATD - At time of c	drilling

								LOG OF BOR S1201	RING
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/19/03 Casing Elevation: N/A Ground Elevation: N/A	NOTEO
		-		0.0	V		FILL	DESCRIPTION Medium stiff, moist, brown silty clay FILL with gravel Moist, brown, fine grained silty sand FILL	NOTES
	_	- 48 ⁻ -	27	0.0	Å		SM	Gray gravel FILL Moist, brown, fine grained silty SAND with gravel	
	5-	- 48	30	0.0	V			With no gravel Soft, moist, tan / gray sandy silty CLAY	1420 Sample S1201(4-6) for VOCs, SVOCs, metals, and PCB field test
		40	30	0.0	A		CL-ML		
	10	- 48	40	0.0	V			Becomes brown Mediun stiff, moist, brown clayey SILT	
	-			0.0			ML-CL	Moist, tan, fine grained silty SAND	
	_	- 48	37	0.0	V		SM	Becomes brown Becomes wet	
	15			0.0				Becomes moist Becomes tan	
		_							End of Boring
	20	_				:			
3/25/04		_			:				
RSSTLEV.GDT &		-							
61197.GPJ UI		oletion D		1 2156138	6.00 Ft. 8.00000			Water Depth: Now Water Depth: Water Depth: Water Depth: Water Depth: Water Depth: Now Water	A ft., After ATD hrs. ft., After hrs.
URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04	Proje Drilli	ct Name ng Conti ng metho	: ractor: od:		I Roberts	Krumm Enviro Geo	rich Phase nmental Dr probe vent	<u>Vater level at ting</u> <u> </u>	me of drilling r drilling Unified Soil Classification based on field visual observations.

							LOG OF BOI S1202	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/19/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
						··	White limestone gravel FILL	NOTES
-	48	36	0.0	Y		FILL		
_	_		0.0				Fine grained cinder, gravel, and silt FILL Stiff, moist, low plasticity silty CLAY	
5	-		0.0			CL-ML	Moist, brown, fine grained silty SAND	
-	48	48	0.0	À		SM		
			0.0		72323			1420 Sample S1202(7-9) for VOCs, SVOCs, metals, and PCB field test
10	48	48	0.0			ML-CL	Soft, wet, brown clayey SILT	
			0.0				Stiff, moist, brown silty CLAY	
_	48	40	0.0			CL-ML		
15	48	48	0.0			SP	Medium dense, moist, brownish yellow, fine grained poorly graded SAND	
								End of Boring
	-							
20	-	:			1			
	_							
Comp Projec Projec Drillin Drillin Logge								
Comp Project	letion D at No.: at Name:		2156138		rumm	rich Phase	Water Depth:	/A ft., AfterATD hrs ft., After hrs. ime of drilling
Drillin Drillin	ng Contr ng metho	actor: od:	R	Water level afte ■ 3" Clear Acetate ■ Hollow Stem Au	r drilling Liner ger Unified Soil Classification based on field visual			
Logge	ed by:		Eri	c Fritsch	<u> </u>		URS NX Wireline Con	re Barrel observations.

							LOG OF BOI S1203	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/20/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
							Gravel FILL with sand	NOTES
	48	37	12.0			FILL	Black cinder FILL with gravel	
			7.3					1110 Sample S1203(3-5) for VOCs, SVOCs, metals, and PCB field test
5			11.0	V			Dry, black, non-plastic silty CLAY	
-	48	24	14.5				Soft, moist, brown, non-plastic silty CLAY Becomes wet	
			21.0	•		CL-ML		
10	48	48	21.0				Becomes black	No odor
			28.0	4			Social stack	
_	-		11.8				Becomes gray with sand Moist, Dark gray, fine grained, poorly graded SAND	
_	48	48		V			Moist, Dark gray, tille grained, poorly graded SAND	No odor
15			11.9			SP	Becomes dark gray	
								End of Boring
-	-						•	
20							·	
	letion D et No.:	-	10 2156138	6.00 Ft. 8.00000			Water Depth:	//A ft., After <u>ATD</u> hrs. ft., After hrs.
Projec	ct Name	:				rich Phase	- YY7 1 1 A	_
	ng Conti ng methe		R			nmental Dr probe	illing Inc 3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification
Logge			rge Jones		ger based on field visual re Barrel observations.			
							URS I NX Wireline Con	drilling

							LOG OF BOI \$1204	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 3/20/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
						ASPHALT	ASPHALT	NOTES
	48	40	5.3	V		FILL	Gravel FILL	
_			7.9	A		SP	With cinders Dry, fine grained, poorly graded SAND	
5			8.6	V		CL-ML	Stiff, moist, brown, low plastic silty CLAY	
	48	48	9.6			ML CL-ML	Soft, moist, brown sandy SILT Stiff, moist, brown stiff, low plastic silty CLAY with brownish-yellow mottles	1505 Sample S1204(6-8) and S1204(6-8)D for VOCs, SVOCs, metals, and PCB field test
			5.3	V			Dense, moist, brown, fine grained silty SAND	
10	48	48	7.6	Å			Becomes wet	
			5.2	V		SM	Becomes moist	
15	48	48	0.5	Å			Becomes wet	
						,		End of Boring
20								
				6.00 7				
Completion Depth: <u>16.00 Ft.</u> Project No.: <u>21561388.00000</u>								//A ft., After <u>ATD</u> hrs. ft., After hrs.
			2130130			rich Phase	I	ime of drilling
Drillii	ng Contr	actor:	R	Roberts			water level after ■ 3" Clear Acetate	Times T
	_		Eri			probe	Hollow Stem Au	ger based on field visual
Logge	Logged by: Eric Fritsch URS NX Wireline Core Barrel observations. ATD - At time of drilling							

Boring Logs

Phase II

							LOG OF BORING S-04-17				
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/20/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES			
							Light gray gravel (1/8-1 1/2") FILL	Notes			
 			0.0	V	\bowtie	FILL		1025 Sample S-04-17-1-2 for VOCs and			
	48	40		Y	X		Moist, dark brown, fine grained SAND	SVOCs 1030 Sample S-04-17-1-2-MS for			
			0.0			SP	Becomes wet, light brown, and clayey	VOCs and SVOCs 1035 Sample S-04-17-1-2-MSD for VOCs and SVOCs			
							Medium stiff, moist, brown silty CLAY				
5			0.0			CL-ML	Becomes stiff				
			0.0				Moist, brown, fine grained clayey sandy SILT				
	48	42				ML					
-	-		0.0			ML-CL	Firm, moist, brown clayey SILT (4")				
							Stiff, moist, brown silty CLAY				
		ļ				CL-ML					
				V			Stiff, moist, brown CLAY with some silt	_			
10	48	46	0.0			CL		1120 Sample S-04-17-10-12 for VOCs and SVOCs			
-	-						Medium stiff, dark brown to black clayey SILT	and Svoes			
	ļ		111			ML-CL	Becomes soft				
							Decomes soft				
			13	V	 	SC	Gray, gravelly clayey SAND Loose, moist, gray to light gray, fine grained SAND				
	48	44					Loose, moist, gray to light gray, fine granied SAND	1145 Sample S-04-17-14-16 for VOCs and SVOCs			
15	1		884			SP		aid 5 v OCs			
		ļ						End of Boring			
								End of Boring			
	1										
-	-										
20-											
	-										
	_										
Comp	oletion D			6.00 Ft.				N/A ft., After ATD hrs.			
	ct No.:		2156138			a, CMS Ph		time of drilling			
						a, CMS Fii nmental Di	illing Inc. ▼ Water level aft	er drilling Geoprobe Macro Sampler			
Drilli	ng meth				Geo	probe	3° Clear Acetat	uger based on field visual			
Logge	ed by:	-	A. \	Villiams	SUII		TTRS NX Wireline Co				
i L											

								LOG OF BOI S-04-18	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/20/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
		- 48	36	0.0	X		FILL	Light gray gravel FILL with clay Becomes light brown Medium stiff, dark brown silty clay FILL with cinders and coarse gravel Becomes reddish brown	1500 Sample S-04-18-1-2 for VOCs and SVOCs
	5	- 48	24	0.0				Becomes wet	
			30.7				Medium stiff to soft, moist, dark brown / black silty CLAY	·	
		108 - 48 46 - 66.5	V		CL-ML	With gray gravel (1/2 - 1")	1525 Sample S-04-18-9-11 for VOCs and SVOCs		
	10		46	66.5			ML	Medium stiff, dark brown sandy SILT with staining	
	-	48	48	24.0	V		SP	Loose, dark gray, fine grained SAND	1535 Sample S-04-18-14-16 for VOCs
	15			2.3	A			Becomes wet	1535 Sample S-04-18-14-16 for VOCs and SVOCs
									End of Boring
	20								
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04		- - -							
2.GPJ URSS									
1197CMS				2156138)	a CMC DL	Water Depth:	//A ft., After ATD hrs. ft., After hrs. ime of drilling
(ENVIRON) LOG	Drilling Contractor:			me: WGK Solutia, CMS Phase Contractor: Roberts Environmental Drill method: Geoprobe A. Williamson				Water level after 3" Clear Acetate Hollow Stem Au NX Wireline Co	er drilling Liner Unified Soil Classification ager based on field visual observations.
URS								ATD - At time of	drilling

								LOG OF BO S-04-19	
Denth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/22/03 Casing Elevation: N/A Ground Elevation: N/A	NOTES
	1					XXX	FILL	DESCRIPTION Loose, light gray gravel silt FILL	NOTES
		48	40	0.4	V			Stiff, moist, brown silty CLAY	1245 Sample S-04-19-0-2-EB for VOCs and SVOCs 1255 Sample S-04-19-0-2 for VOCs and SVOCs
				0.4	4			Becomes medium stiff and silty	
	5	48	42	0.3	V		CL-ML		
				0.2	A			Becomes very moist	
		48 48 88.6	V			With gravel (1 - 1 1/2")			
1	10		48	88.6			SM	Loose, moist, black, fine grained silty SAND	1310 Sample S-04-19-10-12 for VOCs and SVOCs
		48	48	80.1				Loose, light gray SAND	
1:	5		40	1294			SP	Becomes wet	1325 Sample S-04-19-14-16 for VOCs and SVOCs
÷									End of Boring
2	0-								
Co. Pro Pro Dri Dri Log									
Co		letion D		1 2156138	6.00 Ft.		-	Water Depth:	N/A ft., AfterATD hrs. ft., After hrs.
Pro		t No.:					ia, CMS Ph		
Dri							nmental Di	rilling Inc. Water level aft	er drilling
Dri	rilling method:				Geo	probe	3" Clear Acetate Hollow Stem A	Office Soft Classification	
Lo		d by:			Villiams			TTD C NX Wireline Co	ore Barrel observations.
<u></u>								ATD - At time of	drilling

								LOG OF S-04	
Depth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/22/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	П						FILL	Loose gravelly silt FILL	NOTES
		48	36	0.8	V			Stiff, dark brown clayey SILT Becomes medium stiff	1350 Sample S-04-20-0-2 and S-04-20-0-2-D for VOCs and SVOCs
	_	,		0.8			ML-CL	Becomes medium sum	
	5	40	26	0.5	V			Loose, brown, fine grained silty SAND	
	48 36 0.9		SM		1405 Sample S-04-20-6-8 for VOCs and SVOCs				
				0.3					
10	רוי	48	48					Becomes very soft and wet	
				0.5				Loose, light brown, fine grained SAND	
		48	36	0.5	V		SP		
15	5—	70		0.3				With reddish banding	1415 Sample S-04-20-14-16 for VOCs and SVOCs
								,	End of Boring
20)								
T 8/25/04									
URS (ENVIRON) LOG 1197 CMS2. GPJ URSSTLEV.GDT 8/25/04 Out Out Out Out Out Out Out Out Out Out									
GPJ UF									
Col		etion D		1 2156138	6.00 Ft.		-	Water Depth: Water Depth:	ft., After hrs hrs.
Pro Pro	jec	t No.: t Name	:		WGI	K Soluti	a, CMS Ph	ase II	el at time of drilling
Dri	llin	g Cont	ractor:	F	Roberts		nmental Di probe	3" Clear A	el after drilling Geoprobe Macro Sampler cetate Liner Unified Soil Classification
Fog Full	Orilling method:			Villiams		WI ONE	URS Hollow Ste	em Auger based on field visual observations.	
URS						_		ATD - At tim	ne of drilling

								LOG OF BOI S-04-21	RING
Depth in feet	Inhes	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/20/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	N.	NOTES
							Loose, light gray / white gravel FI		
			0.0	V		FILL			1330 Sample S-04-21-1-2 and S-04-21-1-2-D for VOCs and SVOCs
:	48	48	6.8	A		CL	Dark brown sandy CLAY Becomes loose and light brown		
5			0.0				Medium stiff, brown silty SAND		
	48				Becomes wet and clayey		1420 Sample S-04-21-6-8 for VOCs and		
			0.0			SM	becomes were und ordrey		SVOCs
			0.0	V			Soft, wet, dark brown silty CLAY	,	
10	48	36							
			0.0			CL-ML			
			0.0				Becomes wet and black / brown		
	48	44	0.0				Loose, moist, gray, fine grained S.	AND	
15			0.0			SP			1430 Sample S-04-21-14-16 for VOCs and SVOCs
									End of Boring
20									
F 8/25/04									
LEV.GD	Н								
J URSS									
URS (ENVIRON) LOG 1197CMS2 GPJ URSSTLEV GDT 8/25/04 To do do do do do do do do do do do do do	pletion	Depth:		6.00 Ft.		-		Water Depth:N	/A ft., After ATD hrs.
Proj	ect No.:		2156138			a, CMS Ph	ase II	Water Depth:	ft., After hrs.
Dril	ling Co	ntractor:		Roberts	Enviro	ia, CMS Ph nmental Di	rilling Inc	▼ Water level after 3" Clear Acetate	r drilling
Dril Log	Orilling method:			Williams		probe		☐ S Clear Acetate Liner Unified Soil Class based on field visobservations. Unified Soil Class based on field visobservations.	
URS (E	٠, د د د د						URS	ATD - At time of	

							LOG OF B0 S-04-2	
Depth in feet	inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/23/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
			0.3	V			Loose, dry, brown silt FILL with 1/2" gravel	1000 Sample S-04-22-0-2 for VOCs and SVOCs
	48	46	0.6	Å		FILL	With light yellow powder Becomes stiff and dark brown with less gravel	
5-	40	16	0.6	V				
-	48	46	61.3			ML-CL	Moist, black/gray, pepper-like SAND	
10	48	44	82	V				
			96			SP		1005 Sample S-04-22-10-12 for VOCs and SVOCs
	48		61	V				1010 Samuela S 04 22 14 16 for VOC-
15			61					1010 Sample S-04-22-14-16 for VOCs and SVOCs
								End of Boring
20								
8/25/04								
URS (ENVIRON) LOG 1197CMS2 GPJ URSSTLEV GDT 8/25/04 Dilling Company Co								
WSZ GPJ Com	pletion I			6.00 Ft.		-	Water Depth:	N/A ft., After ATD hrs.
Proje	ct No.: ect Name		2156138			a, CMS Ph		ft., After hrs.
Drill	ing Cont	ractor:	F	Roberts	Enviro	nmental Di	- Weter level o	fter drilling
Drill Logg	Drilling method: Logged by:		M			probe	Hollow Stem	Auger based on field visual
URS (E						-	TRS NX Wireline C	

								LOG OF BOI S-04-23	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/22/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTIO	on	NOTES
			0.1	V			Gravel and concrete FILL	•	* Multiple offsets resulting in location 60' NW of original spot
	48	36	0.2	Å		FiLL	Medium stiff, black silty clay FII fragments	LL with brick	1520 Sample S-04-23-0-2-EB for VOCs and SVOCs 1610 Sample S-04-23-0-2 for VOCs and SVOCs
5	48	36	0.2	V			Medium stiff, moist, dark brown	clayey SILT	
	10		12.9						
10-	48	44	17.5	V		ML-CL			
	70		40.1	40.1			Becomes soft, wet, and black		1620 Sample S-04-23-10-12 for VOCs and SVOCs Refusal at 12 feet due to concrete foundation
									End of Boring
15									
20				:					
_									
-	letion D	_		2.00 Ft.				Water Depth:	//A ft., After <u>ATD</u> hrs. — ft., After hrs.
-	t No.: t Name:		2156138			- ia, CMS Ph	ase II		ime of drilling
Drillir	ng Contr	actor:	F	Roberts	Enviro	nmental Dr	illing Inc	▼ Water level after 3" Clear Acetate	Y :
Drillir Logge			A. V			probe	IIDC	Hollow Stem Au NX Wireline Co	based on field visual
	Logged by: A. Williamson Observations. ATD - At time of drilling								

							LOG OF BOR S-04-24	
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/23/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
· ·						ASPHALT	ASPHALT (street) (6")	NOTES
-	48	38	0.3	V			Dry gravel silt FILL	1210 Sample S-04-24-0-2-EB for VOCs and SVOCs 1220 Sample S-04-24-0-2 for VOCs and SVOCs
	_		0.9			FILL	Stiff, dry to moist, brown clayey silt FILL with 3-5% glass particles	, , , , , , , , , , , , , , , , , , ,
5	48	48	0.5	Y		CONCRETE	White concrete (2") Brown clayey SILT Becomes moist to wet	Perched water at 6'
			0.7					1230 Sample S-04-24-6-8 for VOCs and SVOCs
10	48	44	0.7	V		ML-CL	Some gravel (1/4") Grades to stiff, brown silty CLAY	
			0.6				Grades to stiff, brown sitty CLA i	
			0.6	V			Moist, light brown SAND	
15	48	42	0.2			SP		1235 Sample S-04-24-14-16 for VOCs and SVOCs
								End of Boring
20								
	_							
Com	pletion I	Depth:	1	6.00 Ft.			Water Depth: N	/A ft., After ATD hrs.
	ct No.:		2156138			_	Water Depth:	ft., After hrs.
-				WGF	K Soluti	a, CMS Ph	ase II	
Drilli	ng Cont	ractor:	F	Roberts		nmental Dr	rilling Inc ✓ Water level after 3" Clear Acetate	T
	-			I. Miller		probe	Hollow Stem Au	ger based on field visual
rogg	ed by:			L. IVIIIICI	<u> </u>		URS NX Wireline Con	
								*

							S-04-25	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/23/03 Casing Elevation: N/A Ground Elevation: N/A	NOTEO
							DESCRIPTION Stiff, brown, gravelly sandy silt FILL	NOTES
-	48	32	1.0	X A		FILL	Grades to mottled clay Soft, moist, dark brown clay FILL with some gravel	Stiff drilling at 1' offset 1' W 1450 Sample S-04-25-0-2 for VOCs and SVOCs
					\ggg		Loose gravel (1/2-1") FILL with silt	
5	48	23		Y		SM	Moist, brown, medium to fine grained silty SAND	1500 Sample S-04-25-6-8 and
	-	:	1.0			SP	Moist, light brown, medium grained SAND	S-04-21-6-8-D for VOCs and SVOCs
			0.3	V		CL-ML	Moist, dark brown gravelly silty CLAY	
10	48	44	0.3	Y			Moist, light brown, medium grained SAND	
			0.7					
	_		0.7	V		SP	With banded brown color	
15	48	42	0.6	Å				1505 Sample S-04-21-14-16 for VOCs and SVOCs
								End of Boring
20								
Comp Projec Projec Drilli Drilli Logge								
Comr	letion D	epth:	1	6.00 Ft.				I/A ft., After ATD hrs.
Proje	ct No.:		2156138				Water Depth:	ft., After hrs.
Proje	ct Name					a, CMS Ph		
Drilli Drilli	ng Conti ng metho					nmental Di probe	3" Clear Acetate	Liner Unified Soil Classification
Logge				I. Millei			Hollow Stem Au NX Wireline Co	based on field visual observations.
							URS II NX Wireline Co	drilling

							LOG OF BOF S-04-26	RING
Depth in feet	inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
		 					Crushed, white / gray gravel FILL	NOTES
	48	37	0.5	V			With cinders	0910 Sample S-04-26-1-3 for VOCs and SVOCs
			1.7				With wood fragments and cinders Slightly stiff, dry to moist, light brown / red sandy silt FILL	
5_	48	32	0.7			FILL	Light gray / brown silt FILL with some gravels (1/4") grading out	
			6.4				Grades to dry, mottled sandy SILT	
40	48	48	4.0	V			With cinders (3") Stiff, moist (wet 9' - 10'), brown, mottled sandy clayey SILT	Perched water at 9'
10	40	40	10.7			ML-CL		0925 Sample S-04-26-10-12 for VOCs and SVOCs
			3.2	V			Moist, brown, red, mottled, medium to fine grained silty SAND	
15	48	42	10.2	Å		SM		0930 Sample S-04-21-14-16 and S-04-21-14-16-D for VOCs and SVOCs
								End of Boring
_								
20								
8/23/04	-							
Comp Project Drillin Drillin Logge	-							
5								
Comp	letion D	epth:	1	6.00 Ft.	I		Water Depth:N	/A ft., After ATD hrs.
Projec	t No.:		2156138				Water Depth:	ft., After hrs.
Projec			т			a, CMS Ph	rilling Inc. Water level afte	r drilling
Drillin	Drilling Contractor: Drilling method:					probe	3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification
Logge	Logged by:			I. Mille				based on field visual observations.
) S							URS I NX Wireline Con	drilling

								LOG OF BORING S-04-27-A		
Depth In feet		Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
	\top					XXX	·	Gray / brown gravel FILL with silt	NOTES	
		48	44		Y			Stiff, dry, brown silt FILL		
							FiLL	With concrete (5") Gray, fine grained sand FILL	Stiff drilling	
5	5	48	48		Y			Grades to medium grained with few gravels		
Į.		12	12		A			Dark brown silty clay FILL		
10									Geoprobe refusal at 9' Offset 5' west End of Boring	
15	5									
20										
V.GDT 8/25/04										
URS (ENVIRON) LOG 1197 CMS2 GPJ URSSTLEV GDT 8/25/04 To Ou d Ou d Ou d Ou d Ou d Ou d Ou d Ou										
Cor	nple	tion D	epth:		9.00 Ft.			Water Depth:	N/A ft., After ATD hrs.	
<u>е</u> Бьо	ject	No.:		2156138	-			Water Depth:	ft., After hrs.	
e Pro							a, CMS Ph	─ 37.411		
Dri							nmental Dr	rilling Inc Water level al		
کا Dri Σ				ν.	1. Mille		probe	Hollow Stem A	Auger based on field visual	
S rog	gged	by:			I. IVIIIIE			URS NX Wireline C		
ATD - At time of drilling							a dining			

			,		-	ь	LOG OF BO S-04-27-		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
-	48	44	5.0	V		FILL	Medium stiff, dry, reddish brown, fine grained silt FILL with gravel Becomes loose	* Relocated 5 feet west of original boring 1150 Sample S-04-27-0-2 for VOCs and SVOCs	
			4.9	A			With wood fragments With orange concrete		
5-	_		8.5	V		ML	Brown SILT with few gravel	1155 Sample S-04-27-4-6 for VOCs and SVOCs	
; ;	48	46	5.0			SM	Dry to moist, fine grained silty SAND Stiff, dark brown CLAY		
-			1.7	7	7/////	SP CL	Dark gray SAND CLAY Dry to moist, dark gray, fine grained SAND with some clayey silt	-	
10	48	32				SP			
-			2.7			CL-ML	Stiff, dark brown silty CLAY		
	48	48	1.7	Y	VNNN	SP	Slightly moist, dark gray, banded color, fine grained SAND	1200 Sample S-04-27-14-16 and	
15			2.0			Jr.		S-04-21-14-16-D for VOCs and SVOCs End of Boring	
	-							End of Boring	
-									
20									
_									
					:				
Proje	pletion Dect No.:		2156138)		Water Depth:	N/A ft., After ATD hrs. ft., After hrs.	
	ect Name ing Conti					a, CMS Ph nmental Dr	illing Inc. ▼ Water level after	er drilling	
Drill	ing methoged by:				Geo	probe	3 Clear Acetate	uger based on field visual	
Logg	ogged by: M. Miller Observations. ATD - At time of drilling								

								LOG OF BOR S-04-28	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/30/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
l							FILL	Loose, light gray gravel (1 - 1 1/2") FILL Stiff, reddish brown silty CLAY	NOTES
		48	44	4.4	Y		CL-ML	Becomes medium stiff and light brown	0950 Sample S-04-28-1-3 for VOCs, SVOCs, metals, and PCBs
	_			1950	A			Medium stiff, brown, fine grained clayey SILT	
	5			1640	V		ML-CL	Becomes loose and light brown	
ı		48	48		X			Stiff, wet, brown, mottled silty CLAY	
	-	_		9999+	A			Becomes more silty	
				9999+	V		CL-ML		
	10	48	48	1705	X			Becomes soft, wet, and dark gray	with hydrocarbon staining
ı				4795				Loose, dark gray, fine grained SAND	
	-	48	24				SP		*Liner jammed and could not log 12' - 14' section of the run 1000 Sample S-04-28-14-16 for VOCs, SVOCs, metals, and PCBs
	15			9999+					
	-								End of boring
	20	_							
8/25/04									
LEV.GDT									
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04		_							
TCMS2.		oletion I ct No.:		1 2156138	6.00 Ft. 8.00000			Water Depth:N Water Depth:N	/A ft., After <u>ATD</u> hrs. ft., After hrs.
JG 118	Proje	ct Name	:		WGI	C Soluti	a, CMS Ph	ase II	me of drilling
SON) L(Drilling Contractor: F Drilling method:				nmental Dr probe	3" Clear Acetate	Liner Unified Soil Classification		
RS (ENVIF	Logged by: A. V			Villiams		-	Hollow Stem Au NX Wireline Con ATD - At time of o	re Barrel observations.	
٦,									

								LOG OF BO S-04-29		
Depth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/28/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
				0.0	V			Loose, light gray gravel FILL Firm, dark gray silty clay FILL	1000 Sample S-04-29-1-3-EB for	
		48	46	0.0	Å			Becomes medium stiff and wet with brick fragments	VOCs, SVOCs, metals, and PCBs 1150 Sample S-04-28-1-3 for VOCs, SVOCs, metals, and PCBs	
	5			0.0	V		FILL			
		48	40	0.0	Å		FILL	Becomes soft and black / dark gray	1200 Sample S-04-29-6-8 for VOCs, SVOCs, metals, and PCBs	
				0.0	V					
10	0	48	48	0.0	Å			Loose, wet, dark gray, fine grained SAND		
				0.0	V		SP	With clay seam		
1:	5	48	48	0.0	Å		SP	Black, fine grained SAND	1205 Sample S-04-29-14-16 for VOCs, SVOCs, metals, and PCBs	
									End of Boring	
20	0									
TLEV.GDT 8/25										
URS (ENVIRON) LOG 1197CMSZ.GFJ URSSTLEV.GDT 8/25/04 Du Du Dui Coo Coo Coo Coo Coo Coo Coo Coo Coo Co	<u> </u>	letion D	lanth:	1	6.00 Ft.			Water Denth	N/A ft., After ATD hrs.	
Pro	jec	t No.:		2156138	8.00000)	-	Water Depth:	ft., After hrs.	
Pro							a, CMS Ph	-illing Inc. ▼ Water level after	er drilling	
Dri	Drilling Contractor: Drilling method:					Geo	probe	3 Clear Acetate	3" Clear Acetate Liner Unified Soil Classification based on field visual	
Log	Logged by:			A. V	Villiams	son		URS NX Wireline Co	ore Barrel observations.	
Š								ATD - At time of	ummg	

							LOG OF BO S-05-12	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/6/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
				V		ASPHALT	Asphalt Gravelly silty sand FILL with some clay	7
	48	48	10.1	Y			Stiff, dark brown silty clay FILL with brick and cinders	1050 Sample S-05-12-1-3 and S-05-12-1-3-D for VOCs, SVOCs, metals, and PCBs
			57.6					
5-	48	48	46.8	V		FILL	Medium stiff, moist, dark brown clayey silt FILL with concrete fragments	
			49.2					
	40	40	45.2	V			Loose, wet, dark brown/ gray sandy SILT	_
10	48	48	55.0	A		ML		1105 Sample S-05-12-10-12 for VOCs SVOCs, metals, and PCBs with sheen
			0.0	V		CL-ML	Stiff, moist, dark brown silty CLAY Loose, dark gray / brown sandy SILT	_
15	- 48 -	48	0.0	A		ML		1125 Sample S-05-12-14-16 for VOCs, SVOCs, metals, and PCBs
								End of Boring
-								
20								
3/25/04								
URSSTLEV.GDT 872604 URSSTL								
GPJ URSS								
Comp 6 Proje	oletion D ct No.:	_	1 2156138	6.00 Ft. 8.00000			Water Depth:	N/A ft., After <u>ATD</u> hrs. ft., After hrs.
Project Name: WGK Solutia, CMS Phase II □ Drilling Contractor: Roberts Environmental Drilling Inc □ Water level						illing Inc. ▼ Water level after	er drilling	
Drilling method: Geoprol Logged by: A. Williamson					Geo			uger based on field visual
URS (E	J·						URS NX Wireline Co	

								LOG OF BORING S-05-13		
Depth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/23/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
	П						ASPHALT	Asphalt (6")	NOTES	
		48	40	5			FiLL	Brown, silt FILL with gravel (1/2") Dry to moist, purple SILT with some brown color With red brick at 3.5' for 3"	1100 Sample S-05-13-1-3 for VOCs and SVOCs 1105 Sample S-05-13-1-3-MS and S-05-12-1-3-MSD for VOCs and SVOCs (2nd push 0-4' for MS/MSD) Purple color may indicate SantoFlex staining, as per Solutia	
	5	48	48	285				Purple SILT with some red brick fragments Gray sandy SILT (lens) Dark brown silty CLAY with some gravel Grading stiff	stamme, as per social	
		40	40	22					CL-ML	Grading stiff Grades to clayey sandy SILT
1	0	48	42	322	V		ML-CL	Moist, brown clayey SILT with oily residue	and SVOCs	
				213			SM	Moist, brown, banded silty SAND		
		48	48	179				ML	Medium stiff, brown to purple sandy SILT Brown silty SAND Grades lighter brown	
1	5	40	10	70			SM		1115 Sample S-05-13-14-16 for VOCs and SVOCs	
	0								End of Boring	
URS (ENVIRON) LOG 1197CMS2. GPJ URSSTLEV.GDT 8/25/04 T									/A	
Co Pr		letion D t No.:		1 2156138	6.00 Ft. 8.00000		-		/A ft., After <u>ATD</u> hrs. ft., After hrs.	
o Pro				2130100		•	a, CMS Ph	ase II	me of drilling	
ਹ ਹਿ	illin	g Cont	ractor:		Roberts		nmental Dr	rilling Inc		
E Dr	Drilling method: Logged by:					probe	Hollow Stem Au	ger based on field visual		
URS (URS UNX Wireline Col		

							LOG OF BO S-05-14	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/23/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	20	0.3	X A		FILL	Gravel FILL with silt and red brick	1540 Sample S-05-14-0-4 for VOCs and SVOCs
5	- 48	20	1.8			ML	Moist to wet, dark brown clayey sandy SILT	soft drilling 4' - 8' 1550 Sample S-05-14-4-8-EB for VOCs and SVOCs 1600 Sample S-05-14-4-8 for VOCs and SVOCs
10	- 48	32	0.5	V			With no clay	
15	- 48	22	9.0			SM	Moist to wet, dark brown, medium to fine grained silty SAND	1610 Sample S-05-14-14-16 for VOCs and SVOCs
	-							End of Boring
20 0/2010								
Project Project Drilling	ng Contr ng metho	actor:	2156138 R	WGK Roberts	K Soluti Enviro Geo	a, CMS Ph nmental Dr probe	Water Depth: <u>ase II</u>	re drilling Liner Liner unified Soil Classification based on field visual observations.

							LOG OF BORING S-05-15				
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES			
			6.0	V	77 47 47 47 7 47 47 47 77 47 47 4 7 47 57 47 77 47 47 47	TOPSOIL	Grass cover, TOPSOIL with stiff, moist, dark brown clay	1430 Sample S-05-15-1-3 for VOCs and			
	48	41	5.0				Tan, medium to coarse grained sand FILL	SVOCs			
5-	48	24	2.7			FILL	Cinder FILL with moist to wet, black silty clay				
			7.3								
10	48	48	16.0				Moist to wet, dark gray, medium plastic CLAY	1455 Sample S-05-15-10-12 for VOCs			
			572			CL	With oily residue / sheen	and SVOCs strong hydrocarbon odor			
_	48	36	32.6	Y		SM	Moist to wet, dark gray, fine grained sandy SILT or silty SAND with oil residue	1505 Sample S-05-15-14-16-EB for VOCs and SVOCs 1505 Sample S-05-15-14-16 for VOCs and SVOCs * Recovery recorded for the 12-16 foot			
15			50.8					run is an approximation End of Boring			
								End of Borning			
20			!								
LEV.GDT 8/28	_										
URSSTLEV.GDT 8025/04 Before The Control of the Con											
Comp Comp Proie	Completion Depth: Project No.:			6.00 Ft. 8.00000			Water Depth:	//A ft., After <u>ATD</u> hrs ft., After hrs.			
Proje	ct Name	:		WGŁ	Soluti	a, CMS Ph	ase II	ime of drilling			
Drilli Drilli						nmental Dr probe	illing Inc 3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification			
Logg	Drilling method: Logged by:			. Miller			NX Wireline Co	re Barrel observations.			
URS							ATD - At time of	drilling			

							LOG OF BORING S-05-16-A		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/24/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
	48					FILL	Crushed CONCRETE Stiff, slightly moist, dark brown CLAY	Very stiff drilling all the way.	
5					KXXX		·	Refusal at 4 feet due to concrete footing Offset 1 foot End of Boring	
10									
15									
20									
Project Project Drillin	ng metho	actor:	2156138	Roberts	K Soluti Enviro Geo	ia, CMS Ph nmental Di pprobe	Water Depth:	er drilling	

							LOG OF BORING S-05-16-B		
Depth In feet	Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
				V		FILL	Loose, light gray gravel FILL	Relocated 1 foot from original location	
			21.1	V			Medium stiff, dark brown silty CLAY with gravel	1345 Sample S-05-16-1-3 for VOCs and	
-	48	40	153	À		CL-ML	Becomes black	SVOCs 1350 Sample S-05-16-1-3-MS and S-05-16-1-3-MSD for VOCs and SVOCs	
5	- 48	44	678	V		·	Becomes soft, wet		
_			9999+				Loose, wet, black sandy SILT	1355 Sample S-05-16-7-8 for VOCs and SVOCs	
10	48	48	40.6	V		ML			
			67.3				Loose, dark gray, fine grained SAND		
	48	48	868	V		SP			
15			7.6	A			Becomes very wet and black	1400 Sample S-05-16-14-16 for VOCs and SVOCs	
	_							End of Boring	
20 -									
	_								
Comp	oletion D	epth:	1 2156138	6.00 Ft. 8.00000		-	Water Depth:	//A ft., After <u>ATD</u> hrs. ft., After hrs.	
Proje	ct Name			WGI	K Soluti	a, CMS Ph	ase II	ime of drilling	
· •	_				Geo	nmental Dr probe	illing Inc 3" Clear Acetate Hollow Stem A	Liner Unified Soil Classification	
Logge	ed by:		A. V	Villiam:	son		URS NX Wireline Co	ore Barrel observations.	

							LOG OF BOR S-05-SMP2	
Depth In feet	inhes	Driven	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/10/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
		8 9 40	3.6	Y		ASPHALT	ASPHALT (2") Loose, light brown / brown, sandy, gravelly clay FILL with concrete fragments Medium stiff, brown silty clay FILL with gravel	Boring located adjacent to Department 277 Sump 1430 Sample S-05-SMP277-01-1-3 for VOCs and SVOCs
			18.5			FILL		
5			28.5	V			With cinders and gravel (1/8 - 1/2") Becomes loose with large cinders (1 1/2")	
	4	8 44	34.8	Å		CL-ML	Stiff, dark brown silty CLAY with gravel Loose, light to dark brown, fine grained silty SAND	
10	4	8 44	143	V			Loose, moist, light brown, fine grained silty SAND with dark brown banding	1455 Sample S-05-SMP277-01-9-11 for VOCs and SVOCs
			180			SM	With no banding at 11' Becomes dark brown with some medium stiff clay	with staining
	4	8 46	325				Becomes dark brown with some medium stiff clay	
15		. 40	403					1500 Sample S-05-SMP277-01-14-16 for VOCs and SVOCs
								End of Boring
20								
Con Proj Dril Dril Log								
Z.GPJ UKSSI					1			/A
Con Proi	-	n Depth:	2156138	16.00 Ft 38.00000		-		/A ft., After <u>ATD</u> hrs ft., After hrs.
Proj	ect Na	me:		WGI	K Soluti	- ia, CMS Ph	wase II	me of drilling
Dril	ling Co	ontractor	:	Roberts		nmental Di	rilling Inc Water level afte 3" Clear Acetate	
Dril Log	Drilling method: Logged by: A. Williamson			probe	Hollow Stem Au	ger based on field visual		
J. P.	J - 57						URS NX Wireline Con	

								LOG OF BOI S-06-06	
Denth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/30/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
				4.3	V			Loose, light gray gravel FILL with black asphalt Loose, brown, fine grained sandy silt FILL	NOTES
		48	40	18.6			FILL		0905 Sample S-06-06-1-3 for VOCs, SVOCs, metals, and PCBs
				18.0				Loose, moist, black silty sand FILL with gravel Loose, black, coarse grained gravel FILL	
:	5	- 48 46 7.0	.0		ML-CL	Dark gray clayey SILT	0910 Sample S-06-06-6-8 for VOCs,		
				10.1			CL-ML	Medium stiff, moist, dark gray silty CLAY Becomes soft and black Becomes firm	SVOCs, metals, and PCBs
1		48	28	5.5	V			Loose, moist, black/gray, fine grained silty SAND	
,		40	26	8.4			SM	Becomes brown	
		-		3.8	V		CL-ML	Soft, wet silty CLAY	
1	5	48	44	6.0			SM	Loose, light brown, fine grained silty SAND	0930 Sample S-06-06-14-16 and S-06-06-14-16-D for VOCs, SVOCs, metals, and PCBs
									End of Boring
2	0								
8/25/04									
URS (ENVIRON) LOG 118/CMS2.GPJ URSS (LEV.GD) 8/25/04 CO D.L. C									
ASZ.GPJ UR		letion D	enth:	1	6.00 Ft.			Water Denth	I/A ft., After ATD hrs.
S Pro	jec	t No.:		2156138	8.00000)		Water Depth:	ft., After hrs.
Pro Dri							a, CMS Ph nmental Di	willing Inc. ▼ Water level after	er drilling
Dri	illir	_				Geo	probe	Hollow Stem Au NX Wireline Co	lger based on field visual re Barrel observations.
								ATD - At time of	drilling

							LOG OF BOF S-06-07	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/30/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	40	9999+	Y		FILL CL-ML	Light gray gravel FILL (1-1/2") Medium stiff, brown / light brown silty CLAY with gravel	0810 Sample S-06-07-1-3-EB for VOCs, SVOCs, metals, and PCBs 0820 Sample S-06-07-1-3 for VOCs, SVOCs, metals, and PCBs
			9999+			SM	Becomes dark brown Loose, dry, black silty SAND with medium grained gravel	SVOCS, metats, and PCDS
5	48	40	3538	V			Medium stiff, black / dark gray, mottled silty CLAY	with hydrocarbon odor
			1286	A		CL-ML		
10	- 48	38	9999+				Becomes moist	0840 Sample S-06-07-9-11 for VOCs, SVOCs, metals, and PCBs
			9999+			SM	Loose, moist, black, fine grained silty SAND	
	40	40	9999+	V		CL-ML GP SM	Soft, wet, dark gray silty CLAY Loose, wet, dark brown, coarse grained GRAVEL Loose, wet, dark gray / black, fine grained silty SAND	with hydrocarbon staining and odor
15	48	48	1278			CL-ML	Medium stiff, wet, dark gray silty CLAY Loose, moist, dark gray sandy SILT	0845 Sample S-06-07-14-16 for VOCs, SVOCs, metals, and PCBs
								End of Boring
20								
	_							
Com	oletion I	enth.	10	6.00 Ft.			Water Denth: N	/A ft., After ATD hrs.
Proje	ct No.: ct Name	:	2156138	8.00000 WGF	K Soluti	a, CMS Ph	Water Depth: ase II Water level at ti Water level at ti Water level after	me of drilling r drilling Geoprobe Macro Sampler
Drilli	-				Geo	probe	3" Clear Acetate Hollow Stem Au NX Wireline Con ATD - At time of c	Liner Unified Soil Classification ger based on field visual observations.

							LOG OF BOI S-06-08	
Depth in feet	inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/30/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	-						Light gray gravel FILL with asphalt and brick fragments	NOTES
	48	40	3.7	V			Loose, dark brown silty sandy FILL with gravel and	1325 Sample S-06-08-1-3 for VOCs, SVOCs, metals, and PCBs
	-		3.1	A		FILL	concrete fragments	
5			5.7	V			Becomes light tan	
	48	36		Y			Becomes wet with brick fragments	1335 Sample S-06-08-8-10 and
			4.2	A			Loose, wet, brown sandy SILT	S-06-08-8-10-D for VOCs, SVOCs, metals, and PCBs with hydrocarbon odor
			4.0	V				
10	48	44		X			Becomes stiff	
			1.4			ML	Seconds star	
		1	2.1	V			Becomes soft and very wet	
15	48	48	3.1	Å				1340 Sample S-06-08-14-16 for VOCs, SVOCs, metals, and PCBs
								End of Boring
	_							
20								
Comp Proje	pletion D ct No.:		2156138				Water Depth:	/A ft., After <u>ATD</u> hrs. ft., After hrs.
Proje Drilli		actor:	R	oberts	Enviro	a, CMS Ph nmental Dr	water level afte	er drilling
Drilli	ng metho				Geo	probe	Hollow Stem Au TIDE NX Wireline Co	ger based on field visual re Barrel observations.
<u> </u>							ATD - At time of a	drilling

							LOG OF BOF S-06-09	RING
Depth In feet	Inhes	Inches	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/30/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	42	2.0			FiLL	Loose, light gray gravel FILL Loose, black, fine grained sandy silt FILL with gravel	1040 Sample S-06-09-1-3-EB for VOCs, SVOCs, metals, and PCBs 1100 Sample S-06-09-1-3 for VOCs, SVOCs, metals, and PCBs
	-		2.0	4			Becomes brown	
5	48	48	3.2	V			With more gravel Medium stiff, brown, fine grained clayey SILT	
			2.5				ML-CL	Becomes moist and light brown
			2.2	V		ML ML-CL	Loose, gray, fine grained sandy SILT Soft, wet, gray clayey SILT	
10	48	40	2.3	Å		SM	Loose, brown, fine grained silty SAND	
	48	44	1.3					Loose, dark gray / black, fine grained SAND
15			0.5			SP		1130 Sample S-06-09-14-16 for VOCs, SVOCs, metals, and PCBs
								End of Boring
20	_							
.GD1 8/25/04								
Odes Transported T								
Com Com Droi		Depth:		6.00 Ft. 8.00000			Water Depth: N Water Depth: N	/A ft., AfterATD hrs. ft., Afterhrs.
Proje	ect Nan	ne:		WGŁ	K Soluti	a, CMS Ph	ase II	me of drilling
Drill Drill	ing me	hod: _			Geo	nmental Dr probe	3" Clear Acetate Hollow Stem Au	Liner Unified Soil Classification ger based on field visual
EN LOSS	ged by:		A. \	v 111141113	,JII		URS NX Wireline Con	

	**						LOG OF BO S-06-10			
Depth In feet	Inhes	Inches	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/30/03 Casing Elevation: N/A Ground Elevation: N/A	N.	NOTES	
							DESCRIPTIO Loose, light gray gravel FILL	N	NOTES	
	48	40	2.3			FILL	Stiff, brown silty clay FILL			
	-	40	2.5				With gravel FILL (1") Loose, fine grained sandy SILT		1420 Sample S-06-10-1-3 for VOCs, SVOCs, metals, and PCBs 1425 Sample S-06-10-1-3-MS and S-06-10-1-3-MSD for VOCs, SVOCs,	
						ML	2000, 1110 granica omia, 5221		metals, and PCBs	
5			1.5	V			Medium stiff, brown, mottled silt	y CLAY		
	48	40					With large gravel (1-1 1/2")			
			1.5							
			11.1	V		CL-ML				
10	48	40		X					1440 Sample S-06-10-10-12 for VOCs, SVOCs, metals, and PCBs	
			35.8				Light gray gravel (2" layer) Becomes more moist and silty		Svocs, metals, and robs	
			16.1	V					•	
	48	46	10.1	Y			Loose, brown, fine grained SANI)	1450 Sample S-06-10-14-16 for VOCs, SVOCs, metals, and PCBs	
15			9999+			SP			with hydrocarbon odor	
									End of Boring	
20	H									
25/04										
V.GDT 8/		ļ								
URSSTLE										
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04 Tind Gioud Go in O	pletion	Depth:	1	6.00 Ft.				Water Depth:	NA ft., After ATD hrs.	
Proj	ect No.	:	2156138			a, CMS Ph	ase II	Water Depth:	ft., After hrs. time of drilling	
Dril	ling Co	ntractor:	F	Roberts	Enviro	nmental Dr	rilling Inc	▼ Water level aft ■ 3" Clear Acetate	er drilling	
Dril	ling me ged by:		A. V	Villiams		probe		Hollow Stem At	uger based on field visual	
URS (EI	_Б ой оў.	***	, , , ,				URS	ATD - At time of		

								LOG OF BO S-07-14			
Depth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/28/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
	T					XXXX	ASPHALT	ASPHALT (2")	NOTES		
	_	48	40	0.0	V			Light brown sandy gravel FILL Medium stiff, moist, dark brown / black sandy silty clay FILL with gravel	1000 Sample S-07-14-1-3 and S-07-14-1-3-D for VOCs, SVOCs, metals, and PCBs		
				0.0				Becomes dark brown			
	5	48	40	0.0	Y				FILL	With brick fragments and concrete Medium stiff, moist, dark gray, fine grained clayey sand FILL with brick fragments	
			0.0				sand FILL with brick fragments				
				0.0	V	V				Soft was dod one OVAV	
10	0	48	40				CL	Soft, wet, dark gray CLAY	1025 Sample S-07-14-10-12 for VOCs,		
		0.0	0.0	SM	Loose, wet, black / gray, fine grained silty SAND	SVOCs, metals, and PCBs with odor					
				70.4	V		CL-ML	Soft, wet, dark gray silty CLAY	· -		
18	5	48	40	1330	1330	<u> </u>	SP	Loose, dark gray / black, fine grained SAND	1030 Sample S-07-14-14-16 for VOCs, SVOCs, metals, and PCBs		
									End of Boring		
20	0					:					
Cor Pro Pro Dri Dri Log											
		latia - T	\	1	6.00 Ft.			Water Davids M	NA_ ft., After _ATD_ hrs.		
Pro		letion D t No.:		2156138				Water Depth:	ft., After hrs.		
Pro	jec	t Name	:				a, CMS Ph				
Dri Dri							nmental Dr probe	3" Clear Acetate	Liner Unified Soil Classification		
Log	Drilling method: Logged by:			Geoprobe A. Williamson				Hollow Stem At I NX Wireline Co	ore Barrel observations.		
از								ATD - At time of	or mind		

					:		LOG OF BORING S-07-15		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/29/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
	- 48	42	10.1	Y		FILL	Loose, dry, dark brown, medium to fine grained gravelly silt FILL Becomes light gray / brown silt FILL	0935 Sample S-07-15-1-3 for VOCs, SVOCs, metals, and PCBs	
	_		8.5				Cinder FILL with silt Stiff, brown clayey SILT with few gravels		
5	- 48	48	7.4	V		ML-CL	Becomes dark brown	0945 Sample S-07-15-6-8 for VOCs,	
			10.8					SVOCs, metals, and PCBs	
	-		5.5	V		CL-ML	Stiff, moist, dark brown silty CLAY		
10	48	48	8.7	À			Becomes light brown / gray Light brown, fine grained SAND		
			13.7	V		SP CL SP	Soft, moist, mottled CLAY Brown, fine grained SAND	0055 Samuela S 07 15 14 16 San VOO	
15	48	46	4.4	Å		CL SP	Stiff, moist, brown CLAY Tan, fine grained SAND	0955 Sample S-07-15-14-16 for VOCs, SVOCs, metals, and PCBs	
								End of Boring	
20									
				:					
Comp	oletion D			6.00 Ft.				I/A ft., After <u>ATD</u> hrs.	
Project No.: 21561388.00000 Project Name: WGK Solutia, CMS Pha						o CMe Di	Water Depth:		
Project Name: WGK Solutia, CMS Phase I Drilling Contractor: Roberts Environmental Drillin							water level after	er drilling	
Drilling method: Geoprobe							3" Clear Acetate		
Logge	ed by:		M	I. Mille	<u>r</u>		TTDC NX Wireline Co	re Barrel observations.	
							ATD - At time of	drilling	

							LOG OF BOR S-07-16	RING	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/28/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
			0.0	V		FILL	Loose, light gray / brown gravel FILL Very stiff, brown silty clay FILL	1435 Sample S-07-16-1-3 for VOCs,	
	48	42		X		CONCRETE	Loose, moist, sandy silty FILL with red brick CONCRETE with gravel Loose, moist, dark brown, coarse grained gravel FILL	SVOCs, metals, and PCBs	
			0.0	4			Stiff, moist, brown clayey silt FILL		
5	40	42	0.0			FILL	Loose, moist, light brown, fine grained sandy silt FILL		
	48	42	0.0				Loose, moist, light brown, fine grained silty sand FILL	1445 Sample S-07-16-6-8 for VOCs, SVOCs, metals, and PCBs	
			0.0	V			Dark brown, coarse grained gravel FILL Loose, moist, light brown, fine grained silty SAND		
10	48	46	0.0			SM			
-	40	40	0.0	V		SP	Becomes wet Loose, wet, light brown, medium grained SAND		
15	48	48	0.0			ML-CL	Firm, wet, brown clayey SILT Wet, brown, medium grained SAND	1450 Sample S-07-16-14-16 for VOCs, SVOCs, metals, and PCBs	
						SP		End of Boring	
20 -									
20									
			:						
-	letion D at No.:		1 2156138	6.00 Ft. 8.00000			Water Depth:	A ft., After ATD hrs. ft., After hrs.	
Projec	ct Name			WGF	C Soluti	a, CMS Ph	ase II	me of drilling	
	ng Conti ng meth					nmental Dr probe	3" Clear Acetate	Liner Unified Soil Classification	
	ed by:			Villiams			TIRS Hollow Stem Aug NX Wireline Cor	e Barrel observations.	
	ATD - At time of drilling								

							LOG OF BOR S-07-17	RING	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/28/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
			0.0	V		FILL	Loose, dark brown silty clay FILL with gravel \[\fragments \] orange / gray CONCRETE with gravel	1505 Sample S-07-17-1-3 for VOCs,	
_	48	42	0.0			FILL	Brown silty clay FILL with brick fragments, concrete, sand and gravel	SVOCs, metals, and PCBs	
5			0.0	V			Loose, brown, fine grained silty SAND		
	48	40	0.0			SM	Becomes medium grained	1515 Sample S-07-17-6-8 for VOCs, SVOCs, metals, and PCBs	
10	48	48	0.0				Soft, wet, dark brown / gray clayey SILT		
-		40	0.0			ML-CL	Becomes stiff Becomes soft and black		
-	- 48	48	0.0	V	23/3/4	SM	Loose, wet, dark gray / brown, fine grained silty SAND	1520 Sample S-07-17-14-16 and	
15			0.0			CL-ML	Becomes black Stiff, moist, dark brown silty CLAY	S-07-17-14-16-D for VOCs, SVOCs, metals, and PCBs	
								End of Boring	
_	-								
20									
_	_								
_	_								
Comp	letion D	epth:	1	6.00 Ft.		<u></u>	Water Depth: N	/A ft., After ATD hrs.	
Projec	ct No.:		2156138	8.00000	1	• CMC Di-	Water Depth:	ft., After hrs.	
	ct Name: ng Contr					a, CMS Pha nmental Dri	illing Inc	r drilling Geoprobe Macro Sampler	
Drilli	ng metho				Geo	probe	- 3" Clear Acetate I	ger based on field visual	
Logge	Logged by: A. Williamson INX Wireline Core Barrel observations. ATD - At time of drilling								

								LOG OF BOI S-07-18	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	Completion Date: 10/29/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
							FILL	Light gray silty gravel FILL	NOTES
	-	_		4.7	V			Loose, moist, tan, coarse grained SAND	
		48	26	6.8	Å		SP		1030 Sample S-07-18-1-3-EB for VOCs, SVOCs, metals, and PCBs 1045 Sample S-07-18-1-3 for VOCs, SVOCs, metals, and PCBs
	5	48	48	6.1	V	TNNN N			
	-			111			CL-ML	Stiff, moist, brown silty CLAY Becomes granular	
	10	48	48	69.2	Y			Grades to sandy SILT or silty SAND	1105 Sample S-07-18-10-12 for VOCs,
				1935			ML		SVOCs, metals, and PCBs
	-	_		6000	V		SP	Coarse grained SAND lens	
	15	48	42	113	Å		SM	Wet, brown, fine grained silty SAND with green tint	1125 Sample S-07-18-14-16 for VOCs, SVOCs, metals, and PCBs
									End of Boring
	20	_							
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04		_						·	
AS2.GPJ	Com	pletion D	epth:	1	6.00 Ft.			Water Depth: N	/A ft., After ATD hrs.
1197C	Proje	ect No.:		2156138	8.00000)	a, CMS Ph	Water Depth:	ft., After hrs.
N) LOG	Project Name: Drilling Contractor:			Roberts	Enviro	nmental Dr	— W 1 O	r drilling	
ENVIRO	Drilling method: Logged by:		Geoprobe				Hollow Stem Au NX Wireline Co	ger based on field visual re Barrel observations.	
URS								ATD - At time of c	drilling

							LOG OF BO S-07-19	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/29/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
					$\times\!\!\times\!\!\times$	FILL	Loose, light gray gravel FILL	Notes
	48	36	5.9	V		SP	Loose, moist, light brown, medium grained SAND Medium stiff, moist, dark brown silty sandy CLAY with gravel	1455 Sample S-07-19-1-3 for VOCs, SVOCs, metals, and PCBs
			4.9			CL		
5	48	36	5.6	Y		ML-CL	Soft, wet, brown clayey SILT	
			9.6				Soft, loose, brown / tan, fine grained silty SAND with clay	
10	48	42	411	V		SM		1505 Sample S-07-19-10-12 and
			607					S-07-19-10-12-D for VOCs, SVOCs, metals, and PCBs
	48	46	22.9	V		ML-CL	Soft, wet, dark brown, clayey SILT	
15			264			SP	Loose, light brown fine grained SAND Becomes silty	1510 Sample S-07-19-14-16 for VOCs, SVOCs, metals, and PCBs
								End of Boring
20								
_	oletion D	-		6.00 Ft.				MA ft., After ATD hrs.
	ct No.:		2156138			. OME P'		ft., After hrs.
						a, CMS Ph nmental Dr	willing Inc. ▼ Water level after	er drilling
	ng Conu					probe	3" Clear Acetate	Liner Unified Soil Classification
	ed by:			Villiams			Hollow Stem At I NX Wireline Co	re Barrel observations.
							ATD - At time of	drilling

							LOG OF BOR S-07-20	
Depth In feet	Inhes	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/28/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
			0.0	V		FILL	Loose, dark brown silty sand FILL with gravel (1/4 - 1/2")	0825 Sample S-07-20-1-3 for VOCs,
	48	48	0.0			ML-CL	Becomes light brown Firm, brown clayey SILT Loose, tan / brown, fine grained sandy SILT	SVOCs, metals, and PCBs 0830 Sample S-07-20-1-3-MS and S-07-20-1-3-MSD for VOCs, SVOCs, metals, and PCBs
						ML	Become sandy	
5	48	46	0.0	Y			Loose, moist, light brown, fine grained silty SAND	0855 Sample S-07-20-6-8 for VOCs, SVOCs, metals, and PCBs
			0.0				Becomes more silty	SVOCS, metals, and PCBS
10	48	44	0.0	V		SM		
"			0.0					
			0.0	V		ML	Loose, black sandy SILT with gravel Light brown, fine grained SAND	
15	48	46	0.0	Å		SP	Becomes wet and brown	0900 Sample S-07-20-14-16 for VOCs, SVOCs, metals, and PCBs
						ML	Loose, wet, black, fine grained sandy SILT	End of Boring
20								
9/23/04								
SSILEV.GDI								
NO CES								
Proj	npletion ect No.:		2156138)	- - ia, CMS Ph	Water Depth:	f/A ft., AfterATDhrs. ft., Afterhrs. ime of drilling
Dril	ling Cor	tractor:		Roberts	Enviro	nmental Di	rilling Inc ▼ Water level after 3" Clear Acetate	er drilling Geoprobe Macro Sampler Liner Unified Soil Classification
	ling met ged by:	nod: _	A. V	Villiam		probe	Hollow Stem Au NX Wireline Co ATD - At time of	ger based on field visual re Barrel observations.
Š.							ATD - At time of	arining

							L	OG OF BORING S-08-04
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	40	5.8 70.8	X		FILL	Gravel and silty sand FILL (1-1 1/2" size Becomes brown with brick fragments Becomes moist and black	0855 Sample S-08-04-1-2 for PCBs 0900 Sample S-08-04-1-2-MS and S-08-04-1-2-MSD for PCBs
10-								End of Boring
15								
5F0 OKSSTLEV.GDT 9/25/04								
Project Project Drilli	ng Conti ng meth	ractor:	2156138 F	WGI Roberts	K Soluti Enviro Geo	a, CMS Ph nmental Di probe	Wa Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Ater Depth: N/A ft., After ATD hrs. Ater Depth: ft., After hrs. Water level at time of drilling Water level after drilling 3" Clear Acetate Liner Hollow Stem Auger NX Wireline Core Barrel TD - At time of drilling

								LOG OF BO S-08-0	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPT		NOTES
							Loose, light brown silty sand	FILL with gravel	HOILO
	-		5.5	V		FILL			0915 Sample S-08-05-1-2-EB for PCBs
	48	46					Dark brown / black silty CLA	Y with gravel	0925 Sample S-08-05-1-2 for PCBs with odor
	_		122	A		CL-ML	Becomes moist and black		0930 Sample S-08-05-3-4 for PCBs
					<i>V.X.X.</i> X.				End of Boring
5									
			.						
10									
15									
			:						
20									
8/25/04									
EV.GDT									
URSSTL									
Com	pletion D	Depth:	4	1.00 Ft.				Water Depth:	N/A ft., After ATD hrs.
Proje	ect No.:		2156138			- 	И	Water Depth:	ft., After hrs.
Proje	ect Name					ia, CMS Ph nmental Di	rilling Inc	▼ Water level af	ter drilling Geoprobe Macro Sampler
S Drill	ing meth	od: _			Geo	probe		3" Clear Acetat Hollow Stem A	e Liner Unified Soil Classification
	ged by:		A. V	Villiams	son	 .	URS	NX Wireline C ATD - At time of	ore Barrel observations.

								LOG OF BOI		
*								S-08-06		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION		NOTES	
							Loose, light brown silty sandy grav	el FILL		
			4.9	V		FILL	Loose to medium stiff, black, fine g	roined eilte sond-	0940 Sample S-08-06-1-2 for PCBs	
-	48	44					CLAY with gravel	Framer Sitty Sailtry	with odor	
-			15.3			CL			0945 Sample S-08-06-3-4 and	
							Becomes moist		S-08-06-3-4-D for PCBs End of Boring	
5									End of Boring	
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725/04										
8 TOS										
TLEV.(-									
URSS	-									
URS (ENVIRON) LOG 1197CMS2. GPJ URSSTLEV.GDT 8/25/04 Logical Company										
Comp	oletion D ct No.:	-	4 2156138	l.00 Ft. 8.00000	<u> </u>	-			//A ft., AfterATD hrs. ft., After hrs.	
Projec	ct Name			WGF	K Soluți	a, CMS Ph	ase II		ime of drilling	
Drillin	ng Conti	ractor:	R			nmental Dr probe	ming the	▼ Water level after 3" Clear Acetate	Liner Unified Soil Classific	
E Logge			A. V	Villiams		.hi one		Hollow Stem Au NX Wireline Co	iger based on field visual	
URS (I	-						URS	ATD - At time of		

							LOG OF B S-08-0	
Depth In feet	Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
			6.1	V		FILL	Loose, light brown silty sand FILL with gravel Becomes black	0950 Sample S-08-07-1-2 for PCBs
	48	48	33.7	Å		SM	Loose, black, fine grained silty SAND with some moist clay	0955 Sample S-08-07-3-4 for PCBs
5								End of Boring
:								
10								
15								
20								
8/25/04								
URS (ENVIRON) LOG 1197CMS2 GPJ URSSTLEV.GDT 8/25/04 Milling Conduction of the condu								
2.GPJ UR								
Com Proje	pletion E ect No.:		2156138			- -		ft., After hrs.
Proje Drill	ect Name					ia, CMS Ph nmental Di	illing Inc. ▼ Water level a	
Drill Logs	ing meth	od:			Geo	probe		Auger based on field visual
URS (E	, -, ,						URS NX Wireline ATD - At time	

	_								LOG OF BOI S-08-08		
	Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	N	·	NOTES
		48	44	7.4	V		FILL	Loose, light brown silty SAND Becomes black and medium grain		1010 Sample	S-08-08-1-2 for PCBs
		40	44	177	A		SM	Loose, black silty SAND Becomes clayey		1015 Sample	S-08-08-3-4 for PCBs
	5									End of Boring	;
,	10	-									
	_	- -									
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,	15	_									
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JT 8/25/04											
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04 T	-	-									
MS2.GP	omn	letion D	enth:	4	.00 Ft.				Water Depth:N	/A ft After	r ATD hrs.
Pr Pr	oje	t No.:		2156138	8.00000		- -	_	Water Depth:	ft., Afte	
Pr				R			a, CMS Pha nmental Dr	ase II illing Inc	 ∑ Water level at ti ∑ Water level after 	r drilling 🔼	Geoprobe Macro Sampler
D ₁	rilliı	ng metho	od:			Geo	probe		3" Clear Acetate Hollow Stem Au	Liner	Unified Soil Classification based on field visual
JRS (EN	ogge	ed by:		A. W	/illiams	on		URS	NX Wireline Con ATD - At time of o	e Barrel	observations.

							LOG OF BC S-08-0	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	40	4.5			FILL	Loose, light gray gravel (1-1 1/2") FILL Loose, moist, brown silty sand FILL Light gray gravel FILL Loose, brown silty sand FILL	1020 Sample S-08-09-1-2 for PCBs
			4.6				Becomes wet, black, coarse grained gravel FILL	1025 Sample S-08-09-3-4 for PCBs
10-						•		End of Boring
20								
Comp	letion D	epth:	2156138	1.00 Ft. 8.00000			Water Depth: Water Depth:	N/A ft., After <u>ATD</u> hrs. ft., After hrs.
Projec	t Name:			WGŁ	C Soluti	a, CMS Ph	ase II	time of drilling ter drilling Geoprobe Macro Sampler
-	g metho				Geo	probe	3" Clear Aceta	te Liner Unified Soil Classification auger based on field visual
							URS I NX Wireline C	f drilling

						i		LOG OF S-08	
Depth In feet	Inhes	Driven	PID (ppm)	Sampler	Graphic	Symbol	nscs	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
			_					Loose gravel (1 - 1 1/2") FILL	
	4	8 40	6.1	1			FILL	Loose, dark brown / black, fine grained silty sand FILL	y 1035 Sample S-08-10-1-2 and S-08-10-1-2-D for PCBs
-			6.3	7				Becomes wet and coarse grained	1040 Sample S-08-10-3-4 for PCBs
5						V V.V.S			End of Boring
10									
15									
	H								
20									
8/25/04									
rlev.gdt									
URS (ENVIRON) LOG 1197CMS2 GPJ URSSTLEV.GDT 8/25/04 Bind Lod Lod Lod Lod Lod Lod Lod Lod Lod Lo									
Cor		n Depth		4.00			_	Water Depth:	N/A ft., After ATD hrs.
Pro		o.: me:		1388.00 W			a, CMS Ph	ase II	ft., After hrs.
Ö Dril	ling C	ontracto	:	Robe	rts	Enviro	nmental Dr		el after drilling Geoprobe Macro Sampler cetate Liner Unified Soil Classification
Dril Log	ling m	ethod: /:		A. Willia			probe	Hollow Ste	em Auger based on field visual observations.
URS								ATD - At tin	ne of drilling

								LOG OF BO S-08-11		
ᇥ								3-00-11		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	ı.		NOTES
						FILL	Loose, light gray gravel (1 - 1 1/2'	') FILL		NOTES
-	-		5.4	V			Black, fine grained silty SAND		1045 Sample S	-08-11-1-2 for PCBs
	48	36	8.5			SM				
			6.5				With coarse gravel Becomes wet		1050 Sample S	-08-11-3-4 for PCBs
5					المناحلات				End of Boring	
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OT 8/25/0										
STLEV.G	-									
URS (ENVIRON) LOG 1197CMS2 GPJ URSSTLEV.GDT 8/25/04 Logical Discrete Company										
Comp Froise	oletion D		2156138	1.00 Ft. 8.00000)	-	,	Water Depth:	N/A ft., After ft., After	
Proje	ct Name	:		WGF	₹ Soluti	ia, CMS Ph			ime of drilling	
Drilli							rilling Inc	▼ Water level after 3" Clear Acetate	Liner	Geoprobe Macro Sampler Unified Soil Classification
Drilli Logo	ng meth ed bv	od:	A. V	Villiams		probe		Hollow Stem A	uger	based on field visual observations.
URS (E.	,.						URS	ATD - At time of		oosoi vations.

									LOG OF BO S-08-12		
4400		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	N	·•	NOTES
				+				Loose, light gray gravel FILL			140123
		48	42	6.1	Y		FILL	Loose, black, fine grained silty sa	nd FILL with gravel	1100 Sample	S-08-12-1-2 for PCBs
	-			9.8				Becomes wet and coarse grained		1105 Sample	S-08-12-3-4 for PCBs
	_					XXX				End of Boring	
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25/04		<u>.</u>									
V.GDT 8,									•		
URSSTLE		-									
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04 OT LO LO LO LO LO LO LO LO LO LO LO LO LO	mr	letion D	enth:		4.00 Ft.				Water Depth:N	VA fl. After	r ATD hrs.
Pro	ojec	t No.:		2156138	8.00000		-	_	Water Depth:	ft., After	hrs.
o Pro							ia, CMS Ph	ase II rilling Inc	✓ Water level at t✓ Water level after	_	Geoprobe Macro Sampler
ON Dr							nmentai Di probe		3" Clear Acetate Hollow Stem A	Liner	Unified Soil Classification
Lo				A. V	Villiams			URS	NX Wireline Co	ore Barrel	based on field visual observations.
URS								OIL)	ATD - At time of	drilling	

								LOG OF BOI S-08-13	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTIO	ON.	NOTES
-	48	48	7.2			FILL	Loose, light gray gravel FILL Brown silty sand FILL		1115 Sample S-08-13-1-2-EB for PCBs 1125 Sample S-08-13-1-2 for PCBs
			101				Becomes black		1130 Sample S-08-13-3-4 for PCBs
5	-								End of Boring
10 -									
15-									
20 8/25/04									
	oletion D			1.00 Ft.				Water Depth:N	/A ft., After <u>ATD</u> hrs.
Proje	ct No.: ct Name	:	2156138	WGF	K Soluti	a, CMS Ph		Water Depth:	
CRS (ENVIRON) L Drilli Logg					Geo	nmental Dr probe	URS	3" Clear Acetate Hollow Stem Au NX Wireline Con ATD - At time of	Liner Unified Soil Classification ger based on field visual observations.

								LOG OF BOR S-08-14	RING
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	sosn	Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTIO	ON .	NOTES
	48	48	10.2			FILL	Loose, light gray gravel FILL Loose, brown silty sand FILL With brick fragments and gravel Becomes black		1135 Sample S-08-14-1-2 for PCBs 1140 Sample S-08-14-1-2-MS and S-08-14-1-2-MSD for PCBs 1145 Sample S-08-14-3-4 for PCBs
10									End of Boring
	letion D			i.00 Ft.			·	Water Depth: N/	A ft., After ATD hrs.
Project Project Drilling Drilling Logge	ng Contr ng metho	actor:		WGk Roberts	K Soluti Enviro Geo	a, CMS Ph nmental Dr probe		Water Depth: Water level at tin Water level after "" Water level after "" 3" Clear Acetate I "" Hollow Stem Aug NX Wireline Core ATD - At time of di	Controlling Geoprobe Macro Samp Liner Unified Soil Classification ger based on field visual observations.

								LOG OF BORING S-08-15					
	Depth In feet	inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10// Casing Elevation: N/A Ground Elevation: N/A	27/03 A A SCRIPTION			NOTES	
							FILL	Loose, light gray grav	el FILL			140123	
	-	<u> </u>		6.7	V	$\Rightarrow \Rightarrow$		Loose, brown silty SA	AND with gravel				_
ŀ		48	46	63.9	A		SM	Becomes wet and blace	·			S-08-15-1-2 for PC S-08-15-3-4 and D for PCBs	Bs
											End of Boring		
	5												
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	20												
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DT 8/2													
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URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04													
7CMS		oletion E et No.:		2156138	4.00 Ft. 8.00006	<u> </u>	-		Wa Wa	ater Depth: <u>N</u> ater Depth:	f., Afte	r ATD hrs.	
6 119 I	roje	ct Name	:		WGI	₹ Soluti	- ia, CMS Ph		$\overline{\Sigma}$	Water level at ti	me of drilling		
) Drilli	ng Cont	ractor:	F	Roberts		nmental D	rilling Inc	Ē	Water level afte 3" Clear Acetate	Liner	Geoprobe Macro S Unified Soil Class	-
I INVIR		ng meth ed by:	od:	A. V	Villiam:		ihi ane			Hollow Stem Au NX Wireline Cor	ger re Barrel	based on field visi observations.	
URS (E		-						UR	S A7	TD - At time of o			_

							LOG OF BORING S-08-16				
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/3/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES			
	48	46	2.1	V		FILL	Loose, light gray gravel FILL Moist, black silty sandy gravel FILL	1515 Sample S-08-16-1-2 for PCBs			
5	48	46	1.4				Becomes wet	1520 Sample S-08-16-5-6 for PCBs			
	10	40	17.8			CL-ML	Stiff, brown silty CLAY Moist, dark gray, fine grained silty SAND	_			
10	48	48	87.5	Y		SM	Becomes black	1525 Sample S-08-16-9-10 for PCBs			
			22.3			CL-ML	Becomes wet and gray with more silt Dark gray silty CLAY	End of Boring			
15-	-										
20	-										
) . .	oletion D	_		2.00 Ft		-	Water Depth:	N/A ft., After ATD hrs.			
Proje Drilli Drilli	ng Conti	actor:		WGI Roberts	K Soluti Enviro Geo	ia, CMS Ph nmental Di pprobe	ase II	ter drilling e Liner uuger unger ore Barrel Geoprobe Macro Sampler Unified Soil Classification based on field visual observations.			

							LOG OF BORING S-08-17				
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/4/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES			
-	48	30	4.2 3.9			FiLL	Light brown gravel FILL with trace silty sand Black clayey silty sand FILL with some gravel Wood FILL	1125 Sample S-08-17-1-2 for PCBs			
5	48	48	44.0			CL-ML	Firm moist, dark brown silty CLAY with gravel Becomes sandy with more gravel Very firm, moist, black silty CLAY	1130 Sample S-08-17-5-6 for PCBs			
10	36	36	37.1			FILL CL-ML	Moist gravel FILL Firm, light brown silty CLAY	1135 Sample S-08-17-9-10 for PCBs			
20								End of Boring			
Project Project Drillin	ng Conti	actor:	2156138 F	WGI Roberts	Soluti Enviro Geo	a, CMS Ph nmental Dr	Water Depth: ase II	ter drilling			

ŀ								LOG OF BO S-08-18	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/4/03 Casing Elevation: N/A Ground Elevation: N/A	
ŀ		†				XXX		DESCRIPTION Light brown silty sand FILL with gravel	NOTES
	-	48	40	1.8	Y			Becomes dark brown with clay	1405 Sample S-08-18-1-2 for PCBs
	5	48	48	4.7			FILL	With gravel (3") Loose, dark brown gravel FILL (2") Medium stiff, dark brown silty clay FILL with cinders Loose, dark brown gravel FILL Medium stiff to soft, wet, brown / black silty clay FILL	1415 Sample S-08-18-5-6 for PCBs
				39.2	4			Loose, wet, dark brown gravel FILL	
	10	36	18	11.1	X		CL-ML	Gray silty CLAY with gravel	1425 Sample S-08-18-9-10 for PCBs
				287			SM	Fine grained silty SAND	End of Boring
	15								
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04	20								
32.GPJ			_	. د	1.00.5:				N/A
37CM;		letion D		11 21561388	1.00 Ft. 3.00000			Water Depth:	N/A ft., After <u>ATD</u> hrs. ft., After hrs.
3 118							a, CMS Ph		
) [Project Name: WGK Solutia, CMS Phase II Drilling Contractor: Roberts Environmental Drilling Inc							illing Inc. ▼ Water level aft	ter drilling
RON	Drilli	Orilling method: Geoprobe						3" Clear Acetat Hollow Stem A	
EN EN	Logge	d by:		К.	Fletche	r		TTD C NX Wireline Co	ore Barrel observations.
URS							ATD - At time of	drilling	

								LOG OF BORING S-08-19				
Denth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/4/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES			
	T							Loose, light gray gravel FILL	NOTES			
		48	40	2.8	Y			Loose, black silty sandy gravel FILL with cinders	0910 Sample S-08-19-1-2 for PCBs 0915 Sample S-08-19-1-2-MS and S-08-19-1-2-MSD for PCBs			
				6.0			FILL	Loose, moist, light brown, medium grained sand FILL				
	5			8.5	V			Medium stiff, moist, black silty clay FILL	0920 Sample S-08-19-5-6 and			
		48	48		X			Wet, dark brown gravel FILL	S-08-19-5-6-D for PCBs			
				6.5				Stiff, moist, black silty CLAY				
					V		CL-ML	, ,				
1		48	48	22.3					0930 Sample S-08-19-9-10 for PCBs			
"		46	40	21.5			ML-CL	Stiff, moist, dark gray clayey SILT				
				21.5			IME-GE					
	_								End of Boring			
1	5											
2	0											
25/04	-											
GDT 8/	-											
SSTLEV												
URS (ENVIRON) LOG 1197CMS2. GPJ. URSSTLEV.GDT 8/25/04 OT LOT CO O O O O O O O O O O O O O O O O O												
Co Pro		letion D		1 2156138	2.00 Ft. 8.00000		-		N/A ft., After ATD hrs. ft., After hrs.			
Pro	jec	t Name	:		WGk	K Soluti	a, CMS Ph nmental Dr	ase II	at time of drilling Geoprobe Macro Sampler			
Dri	llin	g meth				Geo	probe		ate Liner Unified Soil Classification Auger based on field visual			
URS (EN	gge	d by:		A. V	· 111141113	.J11		URS I NX Wireline ATD - At time				

							LOG OF BORING S-08-20			
Depth In feet	linhes	Driven inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/4/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION		NOTES	
	4:	8 44	3.6	V			Loose, light brown gravel FILL with Dark brown, silty sandy gravel FILI		1015 Sample S-08-20-1-2 for PCBs	
) 44	27.4			FILL	With fewer gravel and trace clay			
5	4	8 48	12.3	Y			With more gravel and brick fragmer	nts	1020 Sample S-08-20-5-6 for PCBs	
			13.7				Firm moist, dark brown silty CLAY			
10	30	6 12	57.4	X		CL-ML	Becomes soft and black		1025 Sample S-08-20-9-10 for PCBs	
									End of Boring	
15										
20										
URS (ENVIRON) LOG 1197CMS2. GPJ URSSTLEV.GDT 8/25/04 Brod Cor Cor Cor Cor Cor Cor Cor Cor Cor Cor						ε				
MS2.GPJ URSS	npletio	n Depth:	1	1.00 Ft	•			Water Depth: N	N/A ft., After ATD hrs.	
Pro	ject No	.:	2156138	88.00000)	- CMC PI	·	Water Depth:	ft., After hrs.	
Pro Dril	ject Na lling Co	me: ontractor	:1			ia, CMS Ph nmental Di		▼ Water level after	er drilling	
Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Hollow Ster Logged by: K. Eletcher			3" Clear Acetate Hollow Stem Au NX Wireline Co	uger based on field visual						
URS (EI	Logged by: K. Fletcher				ATD - At time of					

								LOG OF BORING S-08-22			
	Deptn in reet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/3/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
	-							Loose, light gray gravel FILL	NOTES		
	-	_		28.6	V				1555 Sample S-08-22-1-2 for PCBs		
	_	48	44	7.8			FILL	Loose, black, gravelly silty sand FILL	with sweet odor		
ŀ								Medium stiff, moist, brown / dark gray silty clay			
	5			17.6	V			FILE	1600 Sample S-08-22-5-6 for PCBs		
	_	48	42		Y			Gravelly silty clay FILL			
				7.2					with strong sweet odor		
				7.3				Stiff, black / dark gray silty CLAY			
	+	-		23.1	V		CL-ML		1610 Sample S-08-22-9-10 for PCBs		
1	10	48	42		Y		CL-IVIL	Becomes very wet			
ł	_	1		39				2 Seconds very wee			
				39							
									End of Boring		
	-	-									
1	_	1									
1,	15					•					
ı											
		1									
	_	_									
Ι,	20 -										
'	20				:						
5/04											
JT 8/2	-	-									
EV.GL	-	1									
RSSTI	_										
GPJ U											
CMS2		letion D			2.00 Ft.				N/A ft., After ATD hrs.		
Pr Pr		et No.: et Name		2156138			a, CMS Ph	ase II			
Ö Dı	Project Name: WGK Solutia, CMS Phase II Drilling Contractor: Roberts Environmental Drilling Inc					Enviro	nmental Di	illing Inc. Y Water level a	▼ Water level after drilling		
Drilling method: Geoprobe Hollow Stem Auger base					Auger based on field visual						
URS (E	00							URS I NX Wireline C			

							LOG OF BORING S-08-23			
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/4/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION		NOTES	
	- 48	40	5.9	V			Loose, light gray gravel FILL Black / brown silty clay FILL with		0950 Sample S-08-23-1-2 and S-08-23-1-2-D for PCBs	
	-		7.5			FILL	Loose, wet, black gravel (1 - 1 1/2") FILL		
5	48	42	2.6	V				Q V	0955 Sample S-08-23-5-6 for PCBs	
-			2.4				Medium stiff, moist, dark gray silty	CLAY		
10	- 48	48	6.7			CL-ML	Becomes soft and wet		1000 Sample S-08-23-9-10 for PCBs	
	10	70	7.9	A						
_				-					End of Boring	
15										
	-									
	-									
20 –	_									
URS (ENVIRON) LOG 1197 CMS2. GPJ URSSTLEV.GDT 8/25/04 Logical Company	_									
GPJ URS										
Comp 6 Project	letion D		2156138)			Water Depth:	A ft., After ATD hrs. ft., After hrs.	
Project	t Name:	:		WGF	₹ Soluti	a, CMS Ph nmental Dr	ase II	 ∑ Water level at tii	ne of drilling drilling Geoprobe Macro Sampler	
Drillin	ng metho	actor: od: _			Geo	probe	nung inc	3" Clear Acetate I Hollow Stem Aug	Liner Unified Soil Classification based on field visual	
CENT CENT CENT CENT CENT CENT CENT CENT	Logged by:		A. V	Villiams	MI		URS	■ NX Wireline Core Barrel observations. ATD - At time of drilling		

							LOG OF BORING S-08-24			
Depth In feet	Inhes	Inches	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/4/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
	48	40	7.6	Y			Loose, light gray gravel FILL Stiff, black, silty sandy clay FILL with gravel and cinders	1445 Sample S-08-24-1-2 for PCBs		
			4.4				Becomes brown mottled with gravel (1/2 - 1")			
5	48	44	7.1	V		FILL	Stiff, wet, dark gray silty clay FILL	1455 Sample S-08-24-5-6 for PCBs		
			7.8							
	36	36	2.3	Y			Loose, wet, black, coarse grained gravel FILL Becomes larger (1/2 - 1")	1505 Sample S-08-24-9-10 for PCBs		
10			3.8			CL-ML	Soft, wet, dark gray silty CLAY	End of Boring		
15										
40/s 20										
EV.GDT 8/2!										
URS (ENVIRON) LOG 1197 CMS2. GPJ URSSTLEV.GDT 8/25/04 Tild Gio. do D Gio. do D										
Con Proi	-	Depth:	1 2156138	1.00 Ft. 8.00000		-		N/A ft., After <u>ATD</u> hrs. ft., After hrs.		
Proj	ect Nar	ne:		WGI	₹ Soluti	a, CMS Ph	ase II	time of drilling		
Drilling Contractor: Roberts Environmental Drilling Inc Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Water level after drilling 3" Clear Acetate Liner Unified based on			e Liner Unified Soil Classification							
ORS (EN Fog	ged by:		A. V	Villiams	son		URS NX Wireline C	ore Barrel observations.		

ł								LOG OF BORING S-08-25			
Depth In feet	0 0 0 0	Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/4/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
							ASPHALT	ASPHALT (2") Light gray / black gravel FILL	NOTES		
	H			3.9	V				1515 Sample S-08-25-1-2 and S-08-25-1-2-D for PCBs		
	H	48	46		X			Reddish brown silty sand FILL			
	H			3.5	A			Loose, wet, black, coarse grained gravel FILL			
	-										
5	H			7.3	V		FILL	Medium stiff, dark gray silty clay FILL			
	\mathbb{H}	48	48		X				1520 Sample S-08-25-5-6 for PCBs		
	H			7.0	A						
	-										
				6.0	V			Loose, wet, coarse grained gravel (1/4 - 1") FILL			
10	1 1	36	36	55	Å			Stiff, moist, dark gray silty CLAY	1525 Sample S-08-25-9-10 for PCBs		
							CL-ML	Stirt, moist, dark gray stiry CLA	End of Boring		
									End of Boring		
15											
"											
							;				
20	Н										
90											
DI 875									·		
TLEV.G	H										
urss											
AS2.GP,	nleti	on Do	pth: _	11	1.00 Ft.			Water Denth	N/A ft., After ATD hrs.		
Proj	ect N	lo.: _		21561388	3.00000		Chic m	Water Depth:	ft., After hrs.		
Proj Dril	ling (Contra	ctor:		oberts	Enviro			el after drilling Geoprobe Macro Sampler		
Dril		nethod	d:	A. W		_Geo	probe	Hollow Ste	em Auger based on field visual		
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04 Bird Gold O	5 -	· y · -						URS I NX Wirelin ATD - At tim			

							LOG OF BORING S-08-26			
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/5/03 Casing Elevation: N/A Ground Elevation: N/A	NOTES		
					XXX		DESCRIPTION Loose, gray large gravel FILL with silty sand	NOTES		
	- 48	48	3.2	Y			Loose, black silty sand FILL Becomes reddish brown sandy silt FILL with trace clay	0850 Sample S-08-26-1-2 for PCBs		
			2.8				Loose, black gravel FILL			
5	48	48	7.0	V		FILL	Loose, black silty clay FILL with gravel Loose, black silty sand FILL with gravel Firm, moist, gray silty clay FILL	0855 Sample S-08-26-5-6 for PCBs		
			42.9	A			Moist gravel FILL with silty clay			
		<u> </u>					Firm, moist, gray silty CLAY	_		
	36	36	34.2	Y		CL-ML		0900 Sample S-08-26-9-10 and S-08-26-9-10-D for PCBs		
10			34.0			SM	Dark brown, fine grained silty sand	End of Boring		
ORS (ENVIRON) LOG 1197 CMS2 GPJ URSSTLEV.GDT 8/25/04 Comt Proje Drilli Drilli Class Comp Proje Com										
GPJ										
Comp	oletion I	-		1.00 Ft.			Water Depth:	N/A ft., After ATD hrs.		
Froje	ct No.:		2156138					ft., After hrs.		
Proje						a, CMS Ph	- W. 1 1 0			
Drilli	-		<u>.</u>			nmental Di probe	3" Clear Acetate	e Liner Unified Soil Classification		
F Loss	-	ou:				PLODE	Hollow Stem A NX Wireline Co	uger based on field visual		
URS (E	Logged by: K. Fletcher URS						ATD - At time of			

							LOG OF BORING S-08-27			
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/5/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
	48	40	10.6	Y		F!LL	Loose, brown silty sand FILL with trace clay and gravel Becomes moist	0935 Sample S-08-27-1-2 for PCBs		
			12.3	A			With brick fragments			
5			10.2	V		CL-ML	Reddish silty CLAY with gravel	0940 Sample S-08-27-5-6 for PCBs		
	48	40	7.5	Å		SM CL-ML	Loose, brown silty SAND with trace clay and gravel Gray silty CLAY			
			10.3	7		SM	Loose, brown, silty SAND with trace clay and gravel			
10	36	30	10.2	Å		SM CL-ML	Loose, moist, gray, fine grained silty SAND Moist, gray silty CLAY	0950 Sample S-08-27-9-10 for PCBs		
_								End of Boring		
15										
20 -										
-	letion D	_	<u>1</u> 2156138	1.00 Ft. 8.00000				//A ft., After <u>ATD</u> hrs. ft., After hrs.		
-	t No.: t Name:		2130136			a, CMS Ph	ase II	ime of drilling		
Drillir	ng Contr	actor:	F	Roberts		nmental Dr probe	water level after illing Inc ■ 3" Clear Acetate	Liner Unified Soil Classification		
Logge	_	od:	K.	Fletche		prone	Hollow Stem Au NX Wireline Co	iger based on field visual		
	-						URS I NX Wireline Co			

								LOG OF BO S-08-28		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/5/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION			NOTES
	- - 48	40	5.1	Y			Loose, wet, gray gravel FILL Loose, moist, black silty sand FILI gravel		1005 Sample S- 1020 Sample S-	08-28-1-2-EB for PCBs 08-28-1-2 for PCBs
5-	- 48	4	16.2			FiLL	Becomes wet and clayey Wet, black silty clay FILL with coabrick fragments	arse gravel and	1025 Sample S-	08-28-5-6 for PCBs
10	36	36	7.2	X			Becomes light brown Becomes stiff, moist, and light gray	y		08-28-9-10 for PCBs
-	_								End of Boring	
15	-									
20 -										
Proje Proje	oletion D ct No.: ct Name:		2156138	WGK	Solutia	a, CMS Ph	ase II	Water Depth:N Water Depth:	ft., After . ime of drilling or drilling	ATD hrs. hrs. Geoprobe Macro Sampler
Drilli Logg	ng metho	od:			Geo	probe		3" Clear Acetate Hollow Stem Au NX Wireline Co ATD - At time of	iger b re Barrel o	Jnified Soil Classification pased on field visual abservations.

								LOG OF BOI S-08-29	
Depth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/5/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
				2.9	V			Loose, light gray gravel FILL Black / brown silty sandy gravel FILL with concrete fragments	1050 Sample S-08-29-1-2 for PCBs
		48	38	5.6	A		FILL	Loose, wet, black, coarse grained gravel FILL with brick and concrete fragments	
ŧ	5	48	48	8.7			CL-ML	Stiff, wet, dark gray silty CLAY	1055 Sample S-08-29-5-6 for PCBs 1100 Sample S-08-29-5-6-MS and S-08-29-5-6-MSD for PCBs
				5.1				Level de la Constitue Canto	
		36	36	18.9	V		SM	Loose, dark gray, fine grained silty SAND	1105 Sample S-08-29-9-10 for PCBs
10		50	50	15.7			CL	Soft, wet, dark gray silty sandy CLAY	
							SM	Loose, dark gray, fine grained silty SAND	End of Boring
15	5								
	H								
20									
40000 PO									
וביי.פטן									
19940 19940									
) .	_		epth:		1.00 Ft.				
Pro	ject				WGI	K Soluti	a, CMS Ph	ase II	ime of drilling
				F			nmental Dr probe	water level after 3" Clear Acetate	Liner Unified Soil Classification
	gged			A. V				NX Wireline Co ATD - At time of	re Barrel observations.
5								ATD - At time of	

							LOG OF BORING S-08-30		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/5/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
	48	36	2.3	V		FILL	Loose, light gray gravel FILL Loose, wet, black, coarse gravel FILL	1120 Sample S-08-30-1-2 for PCBs	
	-		2.7						
5	48	40	3.4	V		CL-ML	Stiff, moist, brown / gray silty CLAY	1125 Sample S-08-30-5-6 for PCBs	
-	-		6.0			ML-CL	Soft, moist, brown / gray clayey SILT		
10	36	36	4.8	Y		CL-ML	Stiff, moist, brown silty CLAY	1130 Sample S-08-30-9-10 for PCBs	
-			13.2			ML-CL	Loose, moist, brown / gray sandy clayey SILT	End of Boring	
	-								
15	-{ 								
	- - -								
20	_								
-	-								
Comr	letion D	epth:	1	1.00 Ft.			Water Depth:	N/A ft., After ATD hrs.	
Proje	et No.:		2156138	8.00000)	a, CMS Ph	Water Depth:	ft., After hrs.	
Drilli	ng Conti	actor:		Roberts	Enviro	nmental Di	illing Inc Water level 3" Clear Act	after drilling	
	ng methe ed by:	od:	A. V	Villiams	Geo son	probe	Hollow Ster. NX Wireline	n Auger based on field visual observations.	
							ATD - At time	e of drilling	

								LOG OF BO S-08-31	
Denth In fast		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/6/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
		48	40	0	V			Loose, light gray gravel FILL Light brown silty sandy clay FILL	7.9.29
				0				Moist, light brown sand FILL Black silty sand FILL with gravel	
:	5	48	46	0	V		FILL	Becomes wet	
				0				Medium stiff, moist, black silty clay FILL	
1	0	48	48	0					* PID readings may be affected by cold
	-			0			SM	Brown, loose, fine grained silty SAND	temperature
		48	48	0	V		CL-ML	Firm, moist, dark gray, silty CLAY	1535 Sample S-08-31-13-14 for PCBs
1	5			0			ML	Loose, brown / black, fine grained sandy SILT	
			:						End of Boring
2	0								
URS (ENVIRON) LOG 1197CMS2. GPJ URSSTLEV.GDT 8/25/04 OT OT A.A. O.D. D.A. O.									
Co Co	mp	letion D			6.00 Ft.				N/A ft., After ATD hrs.
136 Pro	ojec	t No.:		2156138			a, CMS Ph	Water Depth:	ft., After hrs.
Dr.	illir	ig Conti	ractor:	F	Roberts	Enviro	nmental Di	illing Inc Water level aft	er drilling
Dr Lo		ng method d by:	od:	A. V	Villiams		probe	Hollow Stem A	uger based on field visual observations.
URS (URS NX Wireline Co	drilling

							LOG OF BOI S-08-32	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/7/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	40	19.6	V			Loose, light gray gravel FILL Loose, light brown silty sandy clay FILL with gravel	0840 Sample S-08-32-1-2-EB for PCBs 0855 Sample S-08-32-1-2 for PCBs
			20.1				Loose, moist, light brown, medium grained sand FILL	
5			*	V			Loose, moist, dark brown / black sandy gravel FILL with brick fragments	0900 Sample S-08-32-5-6 for PCBs
	48	48	*			FILL	Medium stiff, moist, black silty clay FILL Loose, moist, black sandy clayey gravel FILL	
			*	7			Stiff, moist, black silty clay FILL	0005.0
10	48	48		X			Medium stiff, moist, dark gray / gray silty clay FILL	0905 Sample S-08-32-9-10 for PCBs
			*				Becomes stiff Becomes soft and wet Loose, wet, black clayey gravel FILL	
	48	48	*	Y		ML-CL	Moist, dark gray clayey SILT with some gravel	0910 Sample S-08-32-13-14 and S-08-32-13-14-D for PCBs
15			*			ML	Dark gray sandy SILT Becomes wet and black	End of Daving
_								End of Boring
								* PID needed to be recalibrated. No measurements taken
20								
_	letion D	-	1 2156138	6.00 Ft. 8.00000			Water Depth:	//A ft., After <u>ATD</u> hrs ft., After hrs.
						a, CMS Ph	tilling Inc. ▼ Water level after	er drilling
Drillir	g metho	od:			Geo	probe	3" Clear Acetate Hollow Stem Au	based on field visual
Logge	d by:		A. V	Villiams	son		URS NX Wireline Co	re Barrel observations.

٠							LOG OF BOI S-08-33	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/7/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
-	48	40	0	X A		FILL	Loose, light gray gravel FILL Dark brown clayey silt FILL	
5	48	40	0				Loose, moist, dark brown / black sandy gravel FILL	
		40	0				Medium stiff, moist, gray silty CLAY	
10	48	40	0	X		CL-ML	Becomes black and mottled	
	48	36	0				Becomes loose, moist, silty, and sandy	1025 Sample S-08-33-13-14 and S-08-33-13-14-D for PCBs
15						SP	Looes, brown, medium grained SAND	End of Boring
20								
GPJ URSSTLEV.GL	_							
NOW) Proje Proje Drill Drill	pletion I plet No.: ect Name ing Cont ing meth ged by:	ractor:	2156138	WGI Roberts	Soluti Enviro Geo	a, CMS Ph nmental Dr probe	Water Depth: ase II	er drilling Liner Unified Soil Classification based on field visual observations.

								LOG OF BOI S-08-34	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/7/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
┢								Loose, light gray gravelly sandy clay FILL	NOTES
		48	48	0			FILL	Black silty sandy FILL with gravel	
1				334				Brown sandy SILT with gravel	
	5	48	48	0	V		· ML	Becomes wet	with sheen
	-	_		0	A			Stiff, dark gray silty CLAY	
	10	48	40	0	V		CL-ML		
				0				Becomes soft	
				0					
	15	48	40	0	X X		ML	Loose, brown, fine grained sandy SILT	1050 Sample S-08-34-13-14 for PCBs 1055 Sample S-08-34-13-14-MS and S-08-34-13-14-MSD for PCBs
ł	-								End of Boring
	20	-							
T 8/25/04		-							
TLEV.GD	-								
URS (ENVIRON) LOG 1197CMS2. GPJ URSSTLEV. GDT 8/25/04		_							
MS2.(_	letion D	-		6.00 Ft.		_	Water Depth: N	V/A ft., After ATD hrs.
11970	-	et No.: et Name			8.00000 WGF		a, CMS Ph		ft., After hrs. ime of drilling
N) LOG	Project Name: WGK Solutia, CMS Phase Drilling Contractor: Roberts Environmental Drilli Drilling method: Geoprobe				Roberts	Enviro	nmental Di	— W	er drilling
NVIRO			od:		Williams		probe	Hollow Stem Au	iger based on field visual
URS (E	Logged by: A. Williamson							URS INX Wireline Co	

								LOG OF BOR S-08-35	
Depth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/7/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
				0	V			Loose, light gray gravel FILL Loose, brown / tan silty clayey gravel FILL with some sand	NOTES
		48	42	0	Å		FILL	Black silty sand FILL with gravel With concrete fragments	
	5	48	40	0	V			Loose, wet, black gravel FILL	
		48	40	0				Medium stiff, moist, dark gray silty CLAY	
1	0	48	40	0	V		CL-ML		
				0			MŁ-CL	Becomes brown / gray Loose, soft, moist, brown clayey SILT	
		48		0	V			Becomes soft and wet Stiff, wet, brown silty CLAY	1110 Sample S-08-35-13-14-EB for PCBs 1135 Sample S-08-35-13-14 for PCBs
1	5			295			CL-ML SP	Loose, light brown, fine grained SAND	End of Boring
2	0								
1 8/25/04									
URS (ENVIRON) LOG 119/CMS2. GPJ URSSILEV. GDT 8/25/04 TO D. L. C. D. L. C. D. L. C. D. L. C. D. L. C. C. C. C. C. C. C. C. C. C. C. C. C.	-								
MSZ.GPJ Co	mp	letion D	epth:		6.00 Ft.			Water Depth: N	//A ft., AfterATD hrs.
Pro	ojec	t No.:		2156138			- ia, CMS Ph	ase II	
Dr	illir	ng Cont	ractor:		Roberts	Enviro	nmental D	rilling Inc water level after 3" Clear Acetate	Liner Unified Soil Classification
Dr Lo		ng methed by:		A. \	Villiam		probe	Hollow Stem Au NX Wireline Co ATD - At time of	ger based on field visual re Barrel observations.
URS L								ATD - At time of	arilling

								LOG OF BOI S-08-36	
Depth In feet	Inhes	Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/7/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	4	8	40	0	X		FILL	Loose, light gray gravel FILL Black silty sandy gravel FILL	1305 Sample S-08-36-1-2 for PCBs
5	4	8	48	0				Moist, black, fine grained sandy silt FILL with some clay and gravel Wet, black sandy gravel FILL with brick fragments Medium stiff, moist, black / dark gray silty CLAY	1310 Sample S-08-36-5-6 for PCBs
				0				Becomes stiff	
10		8	28	0	Y		CL-ML	Decomes sum	1315 Sample S-08-36-9-10 for PCBs
				0	4		ML-CL	Loose, wet, brown clayey SILT	
	4	8	48	0	Y		CL-ML	Soft, wet, dark gray silty CLAY	1320 Sample S-08-36-13-14 for PCBs
15							SM	Loose, moist, dark gray / brown, fine grained silty SAND	End of Boring
			,						
5DT 8/25/04 00									
URS (ENVIRON) LOG 1197CMS2. GPJ URSSTLEV.GDT 8/25/04 God Lind God Log Go									
Con Proi	npletion		-	1 2156138	6.00 Ft. 8.00000				ft., AfterATD hrs. ft., After hrs.
Proj	ect Na	me:			WGK	C Soluti	a, CMS Ph	ase II	ime of drilling
Dril				R			nmental Dr probe	3" Clear Acetate	Liner Unified Soil Classification
Log	ged by				Villiams			Hollow Stem Au NX Wireline Co ATD - At time of	re Barrel observations.
URS	_		_					ATD - At time of	drilling

									G OF BORING S-09-09-A
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	-	48	48	0.1			FILL	Loose FILL with asphalt, gravel, and sand Stiff, light brown, mottled clayey SILT wi gravel (<1/4")	th small 1045 Sample S-09-09-2-3 for Mercury
				0.5	8				1050 Sample S-09-09-2-3-MS and S-09-09-2-3-MSD for Mercury
	5	12	12	0.4					Refusal at 5' due to former brick sewer system Offest 1 foot End of boring
	10	-							
	15								
F 8/25/04	20								
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04	Comm	oletion D	enth	-	.00 Ft.			Water	Depth: N/A ft., After ATD hrs.
197CM	Proje	ct No.:	:	21561388	8.00000			Water	Depth: ft., After hrs.
L0G 1				R			a, CMS Pha Imental Dr		ter level at time of drilling ter level after drilling
(IRON)	Drilling Contractor: Roberts Environmental Drilling In Drilling method: Geoprobe Logged by: M. Miller				Geo			3" Clear Acetate Liner Unified Soil Classification Hollow Stem Auger Unified Soil Classification hased on field visual	
JRS (ENV	Logge	ed by:	•	M	. Miller	•		TIDC ON	Wireline Core Barrel observations. - At time of drilling

	.							LOG OF BC S-09-09	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
					V		ASPHALT	ASPHALT Stiff, dry to moist, dark brown silty clay FILL with gravel and red brick	* Offset 1 foot from original location
	_	48	36				FILL	gravei and red brick	
	5	18	18	0.8	Y				1200 Sample S-09-09-B-4-5 for Mercury
				0.8					Refusal at 5.5' due to former brick sewer system End of Boring
	10								
		-							
	15								
	-	-							
				ı					
	20								
8/25/04									
LEV.GDT (
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04	-	_					·		
CMS2.G		letion D			5.50 Ft.			Water Depth:	N/A ft., After ATD hrs.
0 119.	-	et No.: et Name		2156138			a, CMS Ph	ase II	_
Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Water level after drilling 3" Clear Acetate Liner Hollow Stem Auger				te Liner Unified Soil Classification					
T ENVIR			od:		l. Miller		hrone	Hollow Stem A NX Wireline C	Auger based on field visual
m								URS NX Wireline CATD - At time o	

١								LOG OF BO S-09-10	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
ľ						XXXX	ASPHALT	ASPHALT Loose, light brown / gray silty sand FILL with gravel	Notes
ı		1		5.2	V			(1/2") and asphalt	1035 Sample S-09-10-0-2 and S-09-10-0-2-D for Mercury
ı		48	36						5-05-10-0-2-D for inferency
ı	-	-		13			FILL	Brown, mottled silty clay FILL	
		-						Becomes loose and gray	
	5	12	12	NR	Ă				NR = Not recorded Refusal at 5'
ı									End of Boring
ı									
ı									
ı									
l									
ı	10								
	-								
		-							
	}	_							
	-	_							
۱	15	_							
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ı							•		
ı									
l	20								
5/04	-	-							
DT 8/2	-	-							
TLEV.G		-							
URSS	-								
S2.GPJ	Carr	-1-41- ·· F	\		5.00 Ft.			Water Doub.	N/A ft., After ATD hrs.
197CM	Proje	pletion D ct No.:		2156138	8.00000)	-	Water Depth:	ft., After hrs.
106		ct Name					tia, CMS Phase II Dommental Drilling Inc Water level at time of dril Water level after drilling		ter drilling
VIRON)	Drilli	ng meth	g method: Geoprobe 3" Clear Acetate Liner Unified Soil But Hollow Stem Auger based on field		uger based on field visual				
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04	Logged by: M. Miller				URS NX Wireline C				

							LOG OF BOI S-09-11	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
						ASPHALT	ASPHALT	Notes
-	48	32	0.7	V			Light brown clayey silty sand FILL with gravel and asphalt	1000 Sample S-09-11-0-2 for Mercury
			2.7	A		FILL	becomes loose with concrete fragements With cinders (6")	
5	40	40	0.2	V			Stiff, moist, dark brown silty CLAY with gravel (1/2")	
_	48	48	0.4	A		CL-ML	Becomes soft with less gravel	1010 Sample S-09-11-6-8 for Mercury
1						SM	Soft, moist, brown silty SAND	-
	24	24	0.4	Y			Stiff, brown CLAY with silt	
	-		0.4			CL		1015 Sample S-09-11-9-10 for Mercury
10					//////			End of Boring
	_							
-	-							
	-							
15	-							
	_				}			
20	_							
	_							
_	_							
Com	letion D	enth:	1	0.00 Ft.	<u> </u>	l	Water Denth: N	VA ft., After ATD hrs.
	ct No.:		<u>2156138</u>			-	Water Depth:	ft., After hrs.
	ct Name					a, CMS Ph	ase II	ime of drilling
						nmental Dr	rilling Inc	T !
-	ng meth	od:				probe	Hollow Stem Au	ager based on field visual
Logg	ed by:		M	I. Mille	r		TTDC INX Wireline Co	ore Barrel observations.
							ATD - At time of	drilling

						LOG OF BORING S-09-12			
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
						ASPHALT	ASPHALT		
	48	36	0.0			FILL	Dry, brown silt FILL with gravel (1/2") Gravel FILL with asphalt Dry, brown gravelly silty sand FILL with asphalt	0930 Sample S-09-12-2-3 for Mercury	
5	30	18		X			Stiff, moist to wet, gray / brown silty clay FILL	0935 Sample S-09-12-5-6-EB for Mercury 0940 Sample S-09-12-5-6 for Mercury Refusal at 6.5' End of Boring	
10									
15									
20									
Project Project Drillin	ng metho	actor:	21561388 R	WGK oberts	Soluti: Enviror Geo	a, CMS Phanmental Dr	Water Depth:	fter drilling ate Liner Auger Core Barrel Geoprobe Macro Sampler Unified Soil Classification based on field visual observations.	

								LOG OF BC S-09-1:	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
						$\times\!\!\times\!\!\times$	ASPHALT	ASPHALT	NOTES
				1.0	V		FILL	Loose gravelly silty clay FILL	1315 Sample S-09-13-1-2 for Mercury
		48	30		X			Stiff, light brown / brown silty CLAY	is a cample of or is 12 to the cary
		-		3.1			CL-ML	Becomes soft and wet	
	5	48	48	0.7	V			Becomes very soft	
		40	40				SP	Loose, wet, brown, coarse grained SAND with gravel	1325 Sample S-09-13-6-7 for Mercury
	-			1.1	8		•	Soft, wet, dark brown sandy CLAY with gravel	1323 Sample 3-09-13-0-7 for Mercury
	-	24	18	1.1	X		CL	Becomes black / dark brown	1330 Sample S-09-13-9-10 for Mercury
	10								End of Boring
		+							
		_							
	15							·	
	}	-							
								·	
	20	1							
4		-							
8/25/0	_	_			j				
V.GDT									
STLE									
J UR		-							
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04	Com	pletion D	enth:	10	0.00 Ft.			Water Denth	N/A ft., After ATD hrs.
197CN	Proje	ct No.:		2156138	8.00000			Water Depth:	ft., After hrs.
.0G 1	Proje	ct Name	:				a, CMS Ph		
RON) L		ng Conti ng methe					nmental Dr probe	illing Inc 3" Clear Acetat	e Liner Unified Soil Classification
(ENVI)		ed by:			Villiams			TTD C NX Wireline Co	ore Barrel observations.
URS							-	ATD - At time of	`drilling

						LOG OF BORING S-09-14			
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
	48	48	1.0	X			Loose, gray FILL with gravel and asphalt Dry, light reddish brown silt FILL with gravel (1/4 - 1/2")	1100 Sample S-09-14-2-3 for Mercury	
5	48	48	0.9	V		FILL	With cinders With red brick (3") With quartz gravel and sand Dry to moist, dark brown clayey silt FILL with gravel	1120 Sample S-09-14-6-8 for Mercury	
10	24		0.9	X			(<1/4") Gravel seam Becomes moist to wet	1125 Sample S-09-14-9-10 for Mercury	
10								End of Boring	
15	-								
20									
911EV. GD 8/25/04						,			
Proje	oletion D		2156138)	o CMC DI	Water Depth:	//A ft., AfterATD hrs ft., After hrs. ime of drilling	
Projective Projective	ng Conti	ractor:		Roberts	Enviro Geo	ia, CMS Ph nmental Di probe	- W 1 1 . 0	er drilling Liner Unified Soil Classification based on field visual observations. Geoprobe Macro Sampler Unified Soil Classification based on field visual observations.	

								LOG OF BOI S-09-15	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	J	NOTES
			0.7	V		ASPHALT FILL	ASPHALT Loose, gravelly sandy FILL with c		
-	48	40	1.2	A		ML-CL	Stiff, moist, brown clayey SILT Becomes medium stiff		1340 Sample S-09-15-2-3 for Mercury
						SP	Becomes stiff Loose, brown SAND with gravel		
5			1.8			35	Stiff, dark brown clayey SILT		1350 Sample S-09-15-5-6 for Mercury
	48	36	0.9			ML-CL	Becomes black / dark brown		
	24	24	0.7	X			Becomes very soft and wet		1355 Sample S-09-15-9-10 for Mercury
10					VXXX				End of Boring
]	-								
15	-								
				ı					
20									
-									
Com	oletion D	enth.	1	0.00 Ft	<u></u>			Water Denth:	NA ft., AfterATD hrs.
Proje	netion L ct No.: ct Name		2156138	8.0000)	- - ia, C <u>MS Ph</u>	ase II	Water Depth:	ft., After hrs. ime of drilling
Drilli		ractor:	1	Roberts	Enviro	nmental Di probe		▼ Water level after 3" Clear Acetate	Liner Unified Soil Classification
			<u>A. V</u>				URS	M Hollow Stem And NX Wireline Co	uger based on field visual observations.
5 L									

								LOG OF BORING S-09-16			
Depth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
				1.0	V		ASPHALT FILL	ASPHALT Loose sandy gravel FILL	HOTES		
		48	36		X			Medium stiff, moist, brown silty CLAY	1405 Sample S-09-16-2-3 for Mercury		
				0.7	A			Becomes soft	1410 Sample S-09-16-2-3-MS and S-09-16-2-3-MSD for Mercury		
	5			1.1	V		CL-ML		1415 Sample S-09-16-5-6 for Mercury		
		48	30		X			Becomes wet and dark brown / gray with gravel	- 1.10 Sample 5 07 70 0 0 00 1100my		
				0.8				M. C. C. C. L. L. CHET.			
		24	24	1.6	X		ML-CL	Medium stiff, wet, dark gray clayey SILT with gravel	with odor 1420 Sample S-09-16-9-10 for Mercury		
10	o								Refusal at 9.8' End of Boring		
	H										
1	5										
	\parallel										
2	0										
T 8/25/04											
URS (ENVIRON) LOG 1197CMS2 GPJ URSSTLEV.GDT 8/25/04 URSSTLEV.GDT 8/25/04 URSSTLEV.GDT 8/25/04 URSSTLEV.GDT 8/25/04	H										
52.GPJ UR					0.00 %				//A 0 40 ATD		
E Pro		etion D No.:	epth:	2156138	0.00 Ft. 8.00000		-	Water Depth:	f/A ft., After ATD hrs. ft., After hrs.		
Pro	ject	Name	:				a, CMS Ph	- XV-411-Ω-			
Dri							nmental Di probe	3" Clear Acetate	Liner Unified Soil Classification		
Log	_	by:			Villiam		-	Hollow Stem Au NX Wireline Co ATD - At time of o	re Barrel observations.		
URS								ATD - At time of o	drilling		

							LOG OF BORING S-09-17			
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/21/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	N	NOTES	
			1.4	V		ASPHALT FILL	ASPHALT Loose, light brown silty clay FILL			
-	48	36	0.9				Firm, light brown clayey SILT		1435 Sample S-09-17-2-3 for Mercury	
_							Becomes dark brown			
5	48	36	0.8	V		ML-CL	Becomes soft and wet with gravel		1440 Sample S-09-17-5-6 for Mercury	
-			0.9	A					1445 Sample S-09-17-7-8 and S-09-17-7-8-D for Mercury	
									End of Boring *Rig broken	
10	_									
15	-			:						
20										
GDI 8/25/1										
RSSTLEV										
S2.GPJ U	1.4: **			.00 Ft.				Water Death N	/A ft., After ATD hrs.	
Comp Froje	oletion D ct No.:		2156138	8.00000		- -			ft., After hrs.	
Proje Drilli			R			a, CMS Phone	ase II illing Inc	✓ Water level at ti	r drilling	
Completion Depth: 8.00 Ft. Project No.: 21561388.00000 Project Name: WGK Solutia, CMS Phase Drilling Contractor: Roberts Environmental Drilling Drilling method: Geoprobe Logged by: A. Williamson				3" Clear Acetate Hollow Stem Au NX Wireline Co	ger based on field visual					
URS (·	<u>URS</u>	ATD - At time of	drilling	

End of Boring End of Boring End of Boring End of Boring End of Boring End of Boring End of Boring End of Boring End of Boring End of Boring Water Depth: NA ft., After ATD hrs. Water Depth: NA ft., After ATD hrs. Water Depth: NA ft., After hrs.								LOG OF BORING S-09-18			
Loose, black / gray gravel Fil.L with papel (1) 048 - 3-0 -	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol		Date: 10/22/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
Soft, wet, dark brown clayey sit FILL with gravel (1 - 1 1/2") and high brown sand 24		48	36	2.0	V		ASPHALT	Loose, black / gray gravel FILL with asphalt	Mercury		
Soft, wet, dark brown clays StriLL with gravel (1 - 1 24				5.6				Becomes medium stiff			
Soft, wet, dark brown clay FILL with gravel (1 - 1 1/2") and brick O910 Sample S-09-18-9-10 for Mercury	5-	48	40	0.6			FILL	Soft, wet, dark brown clayey silt FILL with gravel (1 - 1 1/2") and light brown sand	0905 Sample S-09-18-6-7 for Mercury		
10				0.7							
Completion Depth: 10.00 Ft. Project No.: 21561388.00000 Project Name: WGK Solutia, CMS Phase II Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Water Depth: N/A ft., After ATD hrs. Water Depth: h., After hrs. Y water level at time of drilling Y water level after drilling Y water level after drilling Wife Soil Classification of field visual based on field visu	10	24		1.0	A			Soft, wet, dark brown clay FILL with gravel (1 - 1 1/2") and brick	0910 Sample S-09-18-9-10 for Mercury End of Boring		
Completion Depth: 10.00 Ft. Project No.: 21561388.00000 Project Name: WGK Solutia, CMS Phase II Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Water Depth: N/A ft., After ATD hrs. Water Depth: ft., After inc. hrs. Water Depth: N/A ft., After inc. hrs. Water Depth: Valer depth: N/A ft., After inc. hrs. Water Depth: Valer depth: N/A ft., After inc. hrs. Water Depth: Valer depth: N/A ft., After inc. hrs. Water Dep									Zina or Borning		
Completion Depth: 10.00 Ft. Project No.: 21561388.00000 Project Name: WGK Solutia, CMS Phase II Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Water Depth: N/A ft., After ATD hrs. Water Depth: ft., After inc. hrs. Water Depth: N/A ft., After inc. hrs. Water Depth: Valer depth: N/A ft., After inc. hrs. Water Depth: Valer depth: N/A ft., After inc. hrs. Water Depth: Valer depth: N/A ft., After inc. hrs. Water Dep		_									
Completion Depth: 10.00 Ft. Project No.: 21561388.00000 Project Name: WGK Solutia, CMS Phase II Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Water Depth: N/A ft., After ATD hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Depth: ft. After hrs. Water Depth: ft. After hrs. Water level at time of drilling Water level after drilling Water level after drilling Geoprobe Macro Sample 3" Clear Acetate Liner Unified Soil Classification based on field visual	15										
Completion Depth: 10.00 Ft. Project No.: 21561388.00000 Project Name: WGK Solutia, CMS Phase II Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Water Depth: N/A ft., After ATD hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water level at time of drilling Water level after drilling Water level after drilling Geoprobe Macro Sample 3" Clear Acetate Liner Unified Soil Classification based on field visual	-	_									
Completion Depth: 10.00 Ft. Project No.: 21561388.00000 Project Name: WGK Solutia, CMS Phase II Drilling Contractor: Roberts Environmental Drilling Inc Drilling method: Geoprobe Water Depth: N/A ft., After ATD hrs. Water Depth: ft., After hrs. Water Depth: ft., After hrs. Water Depth: ft. After hrs. Water Depth: ft. After hrs. Water level at time of drilling Water level after drilling Water level after drilling Geoprobe Macro Sample 3" Clear Acetate Liner Unified Soil Classification based on field visual											
Project No.:	20										
Project No.:											
Project No.:	-										
Project No.:					0.00 %			VII i N	/A A AA. ATD •		
Project Name. Work Status, Civil Status,	Proje	ct No.:		2156138	8.0000)	- -	Water Depth:	ft., After hrs.		
Drilling method: Geoprobe Unified Soil Classification By Hollow Stem Auger Unified Soil Classification based on field visual		J						water level after	r drilling		
Logged by: A. Williamson URS INX Wireline Core Barrel observations. ATD - At time of drilling	Drill	Drilling method: Geor			Geo		Hollow Stem Au	ger based on field visual			
)•	Logg	ged by:		A. \	vy iiiiam	son		URS I NX Wireline Con			

							LOG OF BORING S-09-19			
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/22/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION		NOTES	
						ASPHALT FILL	ASPHALT Loose gravel FILL with concrete	0'	915 Sample S-09-19-0-2-EB for	
			0.4	V			Stiff, brown clayey SILT	N	fercury 920 Sample S-09-19-0-2 for Mercury	
-	48	44		X		ML-CL				
			0.6				Becomes moist Stiff, brown silty CLAY			
							our, orom only object			
5	48	42	0.8	V		CI MI	With gravel (1/2 - 1")	0	925 Sample S-09-19-6-7 for Mercury	
			0.6			CL-ML	Becomes moist			
	24	24	0.7	A			Becomes soft and wet	0	930 Sample S-09-19-9-10 for Mercury	
10					X/X/X/X/			E	nd of Boring	
	-									
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_	-									
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45										
15										
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	letion I	-		10.00 Ft		_	·	Water Depth: N/A	ft., AfterATD hrs.	
_	ct No.:		2156138			- ia, CMS Ph	ase II	Water Depth:	_ ft., After hrs. of drilling	
Drilli	Drilling Contractor: Roberts Environmental Drilling Inc					nmental D		▼ Water level after dr ■ 3" Clear Acetate Lin	illing Geoprobe Macro Sampler	
Drilli	ng meth	od: _	A. \		Geo	probe		Hollow Stem Auger	based on field visual	
Logg	ed by:		A. '	T 11112111	2011		URS	NX Wireline Core B ATD - At time of drill		
L										

l								LOG OF BORING S-09-20		
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/22/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
Ī							ASPHALT	ASPHALT Sandy gravel FILL		
ı				2	V			Firm, brown silty clay FILL		
l		48	44						0940 Sample S-09-20-2-3 and S-09-20-2-3-D for Mercury	
ł	-	<u>.</u>		1.5			FILL		,	
l	-			1.1			1122			
l	5	36	36	1.1				Soft, wet, dark brown clayey silt FILL with gravel		
ı	-	- 30	30						0950 Sample S-09-20-6-7 for Mercury	
İ				1.0					Refusal at 7' End of Boring	
		-								
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	10									
l										
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rlev.gi	-	-								
URSS.	-	-								
URS (ENVIRON) LOG_1197CMS2.GPJ_URSSTLEV.GDT_8/25/04	Com	oletion D)anth:	,	7.00 Ft.			Water Denth	N/A ft., After ATD hrs.	
1197CN	Ргоје	ct No.:		2156138	8.00000)	-	Water Depth:	ft., After hrs.	
) LOG	Drilli	ct Name	ractor:	I	Roberts	Enviro	ia, CMS Ph nmental Di	Water level after drilling Geoprobe	er drilling	
NVIRON	Drilli	ng meth ed by:	od:			Geo	probe	Hollow Stem A	uger based on field visual	
urs (e.		oj.						URS NX Wireline Co		

							LOG OF BORING S-09-21			
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/31/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
	- 48	44	3.4	V			Dry, brown gravel FILL with silt and asphalt Very Stiff, tan / brown clayey silt FILL with gravel (<1/8")	7,0,20		
5-	48	46	5.6				Grades to silty clay Sand lens (1") Moist, dark brown silty clayey gravel FILL			
			4.5	A		FILL	Grading to silty clay			
10	- 48	42	2.5				Wet, dark brown / black silty clayey gravel FILL			
			5.8							
	36	36	44.6 14.8	X		CL	Very soft, wet, dark brown, plastic CLAY	1050 Sample S-09-21-13-14 for Mercury		
15-	_		14.6					End of Boring		
20										
SPJ URSSTLEV.GD										
Proje Proje Drilli Drilli	oletion D ot No.: ot Name: ng Contr ng metho ed by:	actor:	2156138 R	WGK Roberts	K Solutia Enviror Geo	a, CMS Ph nmental Dr probe	Water Depth: ase II	er drilling Liner Unified Soil Classification based on field visual observations.		

									LOG OF BOF S-09-22	
	Depth In feet	Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/31/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	N	NOTES
							ASPHALT	ASPHALT		NOTES
		48	32	7.0	Y			Stiff, brown silty clay FILL		
		_		11.8	A		FILL	Becomes mottled		
	5	_	:	9.2	V		, , , ,	Becomes dark brown		
		48	40	10.2				Gravel lens with some sand		Stiff drilling
l	-			10.2	4		CONCRETE	Red BRICK or CONCRETE Stiff, moist, dark brown CLAY		1125 Sample S-09-22-7-8 for Mercury
		10	10	17.9	V					
	10	48	40	18.9			CL	Becomes soft and very moist (1')		
					•			With some gravel (1/8")		·
		36	36	25	X			Becomes mottled		1130 Sample S-09-22-13-14 for Mercury
	15			17.8						End of Boring
	20					,				
8/25/04	_									
TLEV.GDT		-								
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04										
CMS2	omp	letion D	epth:		5.00 Ft.				Water Depth:N	/A ft., After ATD hrs.
4 199 P				2156138			a, CMS Ph	ase II		
D D	rilli	ng Contr	actor:	R	oberts	Enviro	nmental Dr		▼ Water level afte 3" Clear Acetate	
Ď Z Z		-	od:		. Miller		probe		Hollow Stem Au	ger based on field visual
URS (EN	Logged by: M. Miller URS OF							NX Wireline Cor ATD - At time of o		

							LOG OF BOI S-09-23	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/31/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
						FILL	Loose, light gray gravel (1 1/2" - 2") FILL	J
	48	40	0.2	Y			Stiff, brown, mottled silty CLAY	
	_		0.4	ð		CL-ML	Becomes moist	·
5	48	44	2.4				Stiff, dark brown silty sandy CLAY with gravel	with odor
			1.2			CL		1215 Sample S-09-23-7-8 for Mercury
10	48	48	7.0				Soft, moist, black clayey SILT Becomes stiff (3")	
-			11.8			ML-CL	Becomes soft and wet	1220 Sample S-09-23-13-14 for
15	36	36	15.7	A			Becomes light gray	Mercury End of Boring
V GDT 8/25/04								
URS (ENVIRON) LOG 1197CMS2 GPJ URSSTLEV GDT 8/25/04 Miliad Cond Cond Cond Cond Cond Cond Cond Con								
Com	pletion E ct No.:		1: 2156138	<u>5.00 Ft.</u> 8.00000		•	Water Depth:N Water Depth:	V/A ft., After <u>ATD</u> hrs. ft., After hrs.
Proje	ct No.:					a, CMS Ph	ase II	ime of drilling
Drill	ing Cont	ractor:	R	<u>Roberts</u>		nmental Dr	water level after strilling Inc ■ 3" Clear Acetate	
Drill:	Drilling method:		A. V			probe	Hollow Stem At	lger based on field visual
URS (E	<u></u> .						URS NX Wireline Co	

							LOG OF B0 S-09-2	
Depth In feet	Inhes Driven	inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/31/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
-			5.9	V		FILL	Gravelly silt FILL with cinders	NOTES
	48	46	12.5	À		CL-ML	Hard, dry, brown silty CLAY	
5	40	16	15.8	V			Brown sandy SILT with gravel	
	48	46	18.5				Becomes very moist with more gravel	1240 Sample S-09-24-7-8 for Mercury
10	48	42	14.1	V			With less gravel	
			4.1			ML	Becomes soft and very wet with more gravel	
	48	38	27.1	Y			With less gravel	1245 Sample S-09-24-13-14 for Mercury
15			22.8					End of Boring
_	-							
20								
			:					
) . .	pletion I ct No.:	-	1 2156138	6.00 Ft.		_	Water Depth: Water Depth:	N/A ft., After <u>ATD</u> hrs. ft., After hrs.
Proje	ct Name	:		WGI	K Soluti	ia, CMS Ph	ase II	at time of drilling
Drilli	ng meth				Geo	nmental Di probe	illing Inc 3" Clear Acet Hollow Stem	ate Liner Unified Soil Classification
Logg	ed by:		<u>K.</u>	Fletche	er		URS INX Wireline ATD - At time	Core Barrel observations.
· L								

							LOG OF BO S-12-05	
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 10/24/03 Casing Elevation: N/A Ground Elevation: N/A	NOTES
							DESCRIPTION Crushed, white gravel FILL with some brown	NOTES
	48	37	5.3	V			Coloration With some silt	1025 Sample S-12-05-1-3 for VOCs and SVOCs
	-		3.7			FILL	Grades to black Cinder FILL	
5	49	42	2.2	V			Crushed gravel FILL Medium stiff, dry, brown, very fine grained SILT	
	48	42	6.8	A		ML	·	1050 Sample S-12-05-6-8 for VOCs and SVOCs
	_		2.5	V			Becomes wet	Temporary loss of probe rod
10	~ 48 -	35	5.9	À			Moist, brown, fine grained SAND	-
15	- 48	23	3.5	V A		SP		1055 Sample S-12-05-12-16 for VOCs and SVOCs
								End of Boring
	- - -							
20								
_	-							
_	-							
Comp	letion D			6.00 Ft.			Water Depth:	N/A ft., After ATD hrs.
Projec	ct No.:		2156138				Water Depth:	ft., After hrs.
						a, CMS Pho nmental Dr	Water level aft	er drilling
	ng metho				Geo	probe	■ 3" Clear Acetate ■ Hollow Stem A	Liner Unified Soil Classification
Logge	ed by:		M	. Miller	<u> </u>		NX Wireline Co	ore Barrel observations.
							ATD - At time of	drilling

							LOG OF BOF S-12-06	RING	
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/7/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
						FILL	Loose, gray gravel FILL with silty sand and brick fragments	NOTEO	
:	48	46	0.0	X			Loose, moist, brown silty SAND	1500 Sample S-12-6-1-3-EB for VOCs, PCBs, SVOCs, metals, dioxins, and furans 1520 Sample S-12-6-1-3 for VOCs, PCBs, SVOCs, metals, dioxins, and furans	
			0.0					Turuis	
5	48	38	0.0	V		SM		1530 Sample S-12-6-6-8 for VOCs,	
			0.0				Becomes dark brown Becomes very moist	PCBs, SVOCs, metals, dioxins, and furans	
10	48	48	0.0	V					
	40	40	0.0				With dark brown banding and staining Loose, moist, light brown SAND		
	48	42	0.0	V		SP			
15	40	42	0.0				Trace gravel (1") Trace clay	1540 Sample S-12-6-14-16 for VOCs, PCBs, SVOCs, metals, dioxins, and furans	
								End of Boring	
					,				
20									
_									
_									
	letion D			6.00 Ft.			Water Depth: N	/A ft., After ATD hrs.	
	t No.:		<u>2156138</u>			a, CMS Ph		ft., After hrs. me of drilling	
Drillir	ng Contr	actor:	F	Roberts	Enviro	nmental Dr	■ Weter level of	r drilling Geoprobe Macro Sampler	
		od:	A. V	Villiams		probe	Hollow Stem Au	ger based on field visual	
rogge	ogged by: A. Williamson URS NX Wireline Core Barrel observations. ATD - At time of drilling								

							LOG OF BOR S-12-07-	
Depth In feet	Inhes	Inches Recovered	PiD (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/3/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	48	30	3.6	V			Loose, light brown, gravelly silty sandy CLAY	
			3.5				December with large annual (1 - 21)	
5	48	24	0.0	V		CL	Becomes wet with large gravel (1 - 2")	
			0.0					
10	48	18	5.1	X		CL-ML	Soft, loose, wet, brown silty CLAY with large gravel	
	6	0		夂				
15								Refusal at 12.5' due to large limestone gravel Offset 1 foot End of Boring
T 8/25/04								
URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04 Bird Gold Gold Gold Gold Gold Gold Gold Gol	npletion	Depth:	1	2.50 Ft.			Water Depth:N	//A ft., AfterATD hrs.
Proj	ect No.:		2156138	8.00000)	a, CMS Ph	Water Depth: ase II	ft., After hrs.
Dril Dril Log	Project Name: Drilling Contractor: Drilling method: Logged by:		F	Roberts	Enviro Geo		### Water level after 3" Clear Acetate #### Hollow Stem Au	Liner Unified Soil Classification based on field visual re Barrel observations.
URS.	Logged by: A. Williamson Observations. ATD - At time of drilling							

							LOG OF BOF S-12-07-E	
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/5/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
					$\times\!\!\times\!\!\times$	ASPHALT FILL	ASPHALT Loose, light gray gravelly (1 1/2 - 2") silty sand FILL	
-			9.1	V			Loose, brown, fine grained silty SAND	* Offset boring 1 foot from original location
-	48	44	22	Å			Becomes light brown	1440 Sample S-12-7-1-3 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
5-	48	48	327	V		SM	Becomes moist and brown	
			258	A				with hydrocarabon odor
10	48	48	1885			i	Becomes wet	1450 Sample S-12-7-8-10 for VOCs, PCBs, SVOCs, metals, dioxins, and furans with strong hydrocarbon odor
			138				Soft, wet, brown, fine grained clayey SAND	
			111	V		sc	Becomes silty	with hydrocarbon staining with strong hydrocarbon odor
15	48	48	82	À		ML-CL	Stiff, dark brown clayey SILT	1500 Sample S-12-7-14-16 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
					<i>XXXX</i>			End of Boring
20-								
Comp Project Drilling Logge		-						
- Casa								
Comp	letion D	_	<u>1</u> 2156138	6.00 Ft. 8 00000		•		/A ft., After <u>ATD</u> hrs ft., After hrs.
Project	t No.: t Name					a, CMS Ph	ase II	me of drilling
Drillin	ng Conti	ractor:	F	loberts	Enviro	nmental Dr	₩ Water 11 - Δ-	T
Drillin Logge	ng meth				Geo	probe	Hollow Stem Au NX Wireline Col	ger based on field visual observations.
5							ATD - At time of o	mung

							LOG OF BOR S-12-08			
Depth in feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/3/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES		
							Loose, light gray gravelly silty sandy FILL	NOTES		
			0.0			FILL	Loose, dry, black silty SAND with gravel	0915 Sample S-12-8-1-3-EB for VOCs, PCBs, SVOCs, metals, dioxins, and		
	48	36	0.1	À		SM	Becomes moist	furans 0950 Sample S-12-8-1-3 for VOCs, PCBs, SVOCs, metals, dioxins, and furans		
				•		ML-CL	Loose, light brown clayey SILT			
5	48	34	0.0			CL-ML	Becomes very firm silty CLAY			
	46	34	0.0			ML-CL	Loose, moist, light brown clayey SILT			
_	48	34	0.6							
10	48	34	11.4	A		SM	Loose, moist, light brown, fine grained silty SAND with orange / rust banding	1005 Sample S-12-8-10-12 for VOCs, PCBs, SVOCs, metals, dioxins, and furans		
						CL-ML	Loose, moist, brown silty CLAY			
_			5.5	V		SM	Moist, light brown, fine grained silty SAND Loose silty clayey GRAVEL			
	48			V		GC				
15	-		8.8			SM	Moist, light brown, fine grained silty SAND with banding	1010 Sample S-12-8-14-16 for VOCs, PCBs, SVOCs, metals, dioxins, and furans		
20			1	6.00 Fe			Water Death.	End of Boring		
_	letion D at No.:	-	1 2156138	6.00 Ft. 8.00000			Water Depth:N Water Depth:	//A ft., AfterATD hrs. ft., After hrs.		
_	it No.: it Name:					a, CMS Ph	ase II	ime of drilling		
Drillir	ng Contr	actor:	F	Roberts		mental Dr	willing Inc ✓ Water level after ✓ 3" Clear Acetate	T to a company		
	ng metho	od:		Fletche		probe	Hollow Stem Au	lger based on field visual		
Logge	gged by: K. Fletcher URS NX Wireline Core Barrel observations. ATD - At time of drilling									

								LOG OF S-12			
Depth In feet		Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/10/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTEC		
	T					$\otimes \otimes$		Loose, dry, gray silty sandy FILL with gravel	NOTES		
		40	4.5	1272	V		FILL		1040 Sample S-12-9-1-3 for VOCs, PCBs, SVOCs, metals, dioxins, and		
	П	48	46				CL-ML	Firm, dark brown / black silty CLAY	furans		
	Н			28.1			SM	Loose, dry, black silty SAND with gravel			
į.	5-	48	44	3510	V		CL-ML	Medium stiff, brown silty CLAY			
	Н			769			· · · · · · · · · · · · · · · · · · ·	Becomes moist Wet, brown clayey silty SAND			
10) - -	48	48	9999+	V		SM	Becomes black stained	1055 Sample S-12-9-8-10 for VOCs, PCBs, SVOCs, metals, dioxins, and furans		
				905	A			T' 11 1 2 CYAY			
				45.3	•		CL-ML	Firm, black stained silty CLAY Becomes wet			
15	5	48	48	60.2	Å		SM	Loose, moist, black silty SAND	1110 Sample S-12-9-14-16 for VOCs, PCBs, SVOCs, metals, dioxins, and furans End of Boring		
V.GDT 8/25/04											
URS (ENVIRON) LOG 119/CMS2.GPJ URSSTLEV.GDT 8/25/04 Dud Oud Oud Out Out Out Out Out Out Out Out Out Out											
Coi		etion I			6.00 Ft. 8.00000		-	Water Depth: Water Depth:	N/A ft., After <u>ATD</u> hrs. — ft., After hrs.		
Pro	Project No.: 21561388.00000 Project Name: WGK Solu			K Soluti		ase II	l at time of drilling				
Dri							nmental Di probe	3" Clear A	▼ Water level after drilling 3" Clear Acetate Liner Unified Soil Classificatio		
Log	Drilling method:K				Fletche		P	URS Hollow Ste	m Auger based on field visual observations.		
Z.								ATD - At tim	e of drilling		

								LOG OF B S-12-	
	Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/6/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
	-	- 48	46	0.0	V		FILL	Loose, light gray gravel FILL Loose, moist, black silty sandy clay FILL Becomes reddish brown	1345 Sample S-12-10-1-3 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
	_	-		0.0	A			Soft, loose, moist, gray / brown clayey SILT	
	5	48	40	0.0	Y			Becomes wet with some sand	1350 Sample S-12-10-6-8 for VOCs,
				0.0	A				PCBs, SVOCs, metals, dioxins, and furans
	10	- 48	48	0.0	Y		ML-CL	Becomes very soft and black	
				0.0	A			Becomes medium stiff and dark gray	
				0.0	V			Becomes very soft and wet	
	15	48	48	0.0	Å		SM	Loose, wet, brown, fine grained silty SAND With black banding	1400 Sample S-12-10-14-16 and S-12-10-14-16-D for VOCs, PCBs, SVOCs, metals, dioxins, and furans
									End of Boring
	20								
GDT 8/25/04	_								
URS (ENVIRON) LOG 1197 CMS2.GPJ URSSTLEV.GDT 8/25/04		1							
MS2.G	Com	letion D	epth:	10	6.00 Ft.			Water Depth: _	N/A ft., After ATD hrs.
1197CI	J		2156138	3.00000			Water Depth: _	ft., After hrs.	
907				R			a, CMS Pha nmental Dr	illing Inc. Water level	
IRON)	Drilling Contractor: Roberts Environmental Drilling In Brilling method: Geoprobe				3" Clear Ace ☑ Hollow Stem	tate Liner Unified Soil Classification			
S (ENV.	Logged by:			A. V	/illiams	on		TTDC NX Wireline	Core Barrel observations.
S.	<u></u>							ATD - At time	or arming

							LOG OF B S-12-		
Depth In feet	Inhes Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	nscs	Completion Date: 11/3/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES	
					***	FILL	Loose, light gray gravel FILL	NOTES	
	_		4.3	V		CL	Light brown silty sandy CLAY with gravel (1 - 1 1/2") and concrete fragments	1045 Sample S-12-11-1-3 for VOCs,	
	48	42				ML-CL	Loose, brown clayey SILT with trace fine grained sand	PCBs, SVOCs, metals, dioxins, and furans 1050 Sample S-12-11-1-3-MS and S-12-11-1-3-MSD for VOCs, PCBs,	
	-		5.0				Loose, moist, light brown silty SAND with iron staining	SVOCs, metals, dioxins, and furans	
5			3.4	V		SM	December to and arrange		
	48	44	4.2		74777		Becomes tan and orange Becomes black with gravel		
			4.2				Stiff, moist, brown clayey SILT		
			5.3	V		ML-CL		1115 Sample S-12-11-8-10 for VOCs, PCBs, SVOCs, metals, dioxins, and furans	
10	48	48		🔻			with gravel (1/2 - 1")		
_			1.8				Becomes soft and moist Soft, wet, brown clayey sandy SILT		
			4.6	7					
	40	40	4.0			ML	Becomes very wet		
15	48	48	5.8					1130 Sample S-12-11-14-16 for VOCs, PCBs, SVOCs, metals, dioxins, and furans	
								End of Boring	
20	_								
Comp	letion D	epth:	1	6.00 Ft.		_	Water Depth:	N/A ft., After ATD hrs.	
Projec	ct No.:		2156138	8.00000)		Water Depth: _	ft., After hrs.	
						a, CMS Ph nmental Di	water level a ✓ Water level a	after drilling	
Drillii	ng metho				Geo	probe	3" Clear Acet	ate Liner Unified Soil Classification	
Logge	ogged by: A. Williamson INX Wireline Core Barrel observations. ATD - At time of drilling								
·									

							LOG OF BOI S-12-12	
Depth In feet	Inhes	Inches	PID (ppm)	Sampler Graphic	Symbol	USCS	Completion Date: 10/29/03 Casing Elevation: N/A Ground Elevation: N/A DESCRIPTION	NOTES
			7.9	V			Brown, coarse grained gravelly sand FILL with some clay and concrete fragments	1330 Sample S-12-12-0-2 for VOCs,
	48	30	5.8	Å			Becomes moist	PCBs, SVOCs, and metals 1335 Sample S-12-12-0-2-MS and S-12-12-0-2-MSD for VOCs, PCBs, SVOCs, and metals
5	40	26	9.4	V			Becomes very coarse	
	48	36	613	Å		FILL	Black wood FILL	sheen present 1400 Sample S-12-12-6-8 for VOCs, PCBs, SVOCs, and metals
			9999+	V			Wet, brown gravel FILL with clayey sand	strong solvent-like odor
10	48	12	283	Å				
			1019	V			With brick fragments Soft, wet, dark gray / black silty CLAY	
15	48	40	9999+			CL-ML	Becomes medium stiff Soft, loose, wet, dark gray clayey SILT	1410 Sample S-12-12-14-16 for VOCs, PCBs, SVOCs, and metals
						ML-CL	Soft, loost, wel, dark gray clayey SiE1	End of Boring
20								
DT 8/25/04	 							
URSS (ENVIRON) LOG 1197CMS2 GPJ URSS 1LEV GDT 8725/04 Cou Duil Cou Cou Cou Cou Cou Cou Cou Cou Cou Cou								
do Con Con Proj	ect No.		2156138)		Water Depth:	//A ft., After hrs. ft., After hrs.
Proj Dril Dril	Project No.: Project Name: Drilling Contractor: Drilling method:		F	Roberts	Enviro Geo	a, CMS Ph nmental Dr probe	rilling Inc ✓ Water level afte 3" Clear Acetate Hollow Stem Au	er drilling Liner ger Unified Soil Classification based on field visual
Log Log	Logged by:			7 HUAIIIS	,JII		URS NX Wireline Con	